DX200 MAINTENANCE MANUAL

(Volume 1)

- •Upon receipt of the product and prior to initial operation, read these instructions below thoroughly, and retain for future reference.
- •This instruction consists of "Volume 1" and "Volume 2".

MOTOMAN INSTRUCTIONS

MOTOMAN-□□□ INSTRUCTIONS
DX200 INSTRUCTIONS
DX200 OPERATOR'S MANUAL (for each purpose)
DX200 MAINTENANCE MANUAL (Volume 1) (Volume2)

The DX200 operator's manuals above correspond to specific usage. Be sure to use the appropriate manual. The DX200 maintenance manual above consists of "Volume 1" and "Volume 2".

YASKAWA ELECTRIC CORPORATION



THIS MATERIAL IS FOR STUDY PURPOSE ONLY. YOU MUST READ THE MANUAL WHICH ENCLOSED WITH A ROBOT.



- This manual explains maintenance procedures of the DX200 system. Read this manual carefully and be sure to understand its contents before handling the DX200.
- General items related to safety are listed in Chapter 1: Safety of the DX200 INSTRUCTIONS. To ensure correct and safe operation, carefully read the DX200 Instructions before reading this manual.



CAUTION

- Some drawings in this manual are shown with the protective covers or shields removed for clarity. Be sure all covers and shields are replaced before operating this product.
- The drawings and photos in this manual are representative examples and differences may exist between them and the delivered product.
- YASKAWA may modify this model without notice when necessary due to product improvements, modifications, or changes in specifications. If such modification is made, the manual number will also be revised.
- If your copy of the manual is damaged or lost, contact a YASKAWA representative to order a new copy. The representatives are listed on the back cover. Be sure to tell the representative the manual number listed on the front cover.
- YASKAWA is not responsible for incidents arising from unauthorized modification of its products. Unauthorized modification voids your product's warranty.

Notes for Safe Operation

Read this manual carefully before maintenance or inspection of the DX200.

In this manual, the Notes for Safe Operation are classified as "DANGER", "WARNING", "CAUTION", "MANDATORY", or "PROHIBITED".



DANGER

Indicates an imminent hazardous situation which, if not avoided, could result in death or serious injury to personnel.



WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury to personnel.



CAUTION

Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury to personnel and damage to equipment. It may also be used to alert against unsafe practices.



Always be sure to follow explicitly the items listed under this heading.



Must never be performed.

Even items described as "CAUTION" may result in a serious accident in some situations.

At any rate, be sure to follow these important items.



To ensure safe and efficient operation at all times, be sure to follow all instructions, even if not designated as "DAN-GER", "WARNING" and "CAUTION".



WARNING

 Before operating the manipulator, check that servo power is turned off when the emergency stop buttons on the front door of the DX200 and programing pendant are pressed.
 When the servo power is turned off, the SERVO ON LED on the programing pendant is turned off.

Injury or damage to machinery may result if the emergency stop circuit cannot stop the manipulator during an emergency. The manipulator should not be used if the emergency stop buttons do not function.

Fig. : Emergency Stop Button



 Once the emergency stop button is released, clear the cell of all items which could interfere with the operation of the manipulator. Then turn the servo power ON.

Injury may result from unintentional or unexpected manipulator motion.

Fig. : Release of EM



TURN

safeguarding.

- Observe the following precautions when performing teaching operations within the P-point maximum envelope of the manipulator:
 - Be sure to use a lockout device to the safeguarding when going inside.
 Also, display the sign that the operation is being performed inside the safeguarding and make sure no one closes the
 - View the manipulator from the front whenever possible.
 - Always follow the predetermined operating procedure.
 - Keep in mind the emergency response measures against the manipulator's unexpected motion toward you.
 - Ensure that you have a safe place to retreat in case of emergency.

Improper or unintended manipulator operation may result in injury.

- Confirm that no person is present in the P-point maximum envelope of the manipulator and that you are in a safe location before:
 - Turning on the power for the DX200.
 - Moving the manipulator with the programming pendant.
 - Running the system in the check mode.
 - Performing automatic operations.

Injury may result if anyone enters the working envelope of the manipulator during operation. Always press an emergency stop button immediately if there are problems.

The emergency stop button is located on the right of the front door of the DX200 and programing pendant.



CAUTION

- Perform the following inspection procedures prior to conducting manipulator teaching. If problems are found, repair them immediately, and be sure that all other necessary processing has been performed.
 - -Check for problems in manipulator movement.
 - -Check for damage to insulation and sheathing of external wires.
- Always return the programming pendant to the hook on the DX200 cabinet after use.

The programming pendant can be damaged if it is left in the P-point maximum envelope of the manipulator, on the floor, or near fixtures.

 Read and understand the Explanation of Warning Labels in the DX200 Instructions before operating the manipulator.

Definition of Terms Used Often in This Manual

The MOTOMAN manipulator is the YASKAWA industrial robot product.

The MOTOMAN usually consists of the controller, the programming pendant, and supply cables.

In this manual, the equipment is designated as follows.

Equipment	Manual Designation
DX200 Controller	DX200
DX200 Programming Pendant	Programming Pendant
Cable between the manipulator and the controller	Manipulator cable

Descriptions of the programming pendant keys, buttons, and displays are shown as follows:

Equipment		Manual Designation
Programming Pendant	Character Keys /Symbol Keys	The keys which have characters or its symbol printed on them are denoted with []. ex. [ENTER]
	Axis Keys /Numeric Keys	[Axis Key] and [Numeric Key] are generic names for the keys for axis operation and number input.
	Keys pressed simultaneously	When two keys are to be pressed simultaneously, the keys are shown with a "+" sign between them, ex. [SHIFT]+[COORD]
	Displays	The menu displayed in the programming pendant is denoted with { }. ex. {JOB}

Description of the Operation Procedure

In the explanation of the operation procedure, the expression "Select •••" means that the cursor is moved to the object item and the SELECT key is pressed, or that the item is directly selected by touching the screen.

Registered Trademark

In this manual, names of companies, corporations, or products are trademarks, registered trademarks, or brand names for each company or corporation. The indications of (R) and TM are omitted.

Explanation of Warning Labels



• The label described below is attached to the manipulator.

Observe the precautions on the warning labels.

Failure to observe this caution may result in injury or damage to equipment.

Fig.: Warning Labels

WARNING Label A:



WARNING Label B:

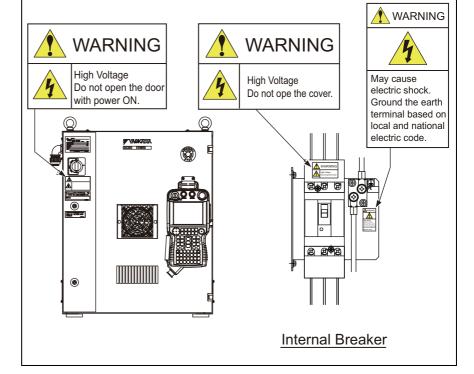


• The following warning labels are attached to DX200.

Observe the precautions on the warning labels.

Failure to observe this warning may result in injury or damage to equipment.

Fig. : Location of Warning Labels



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- 1 Equipment Configuration
- 1.1 Arrangement of Units and Circuit Boards

1 **Equipment Configuration**

The DX200 is comprised of individual units and modules (circuit boards). Malfunctioning components can generally be easily repaired after a failure by replacing a unit or a module. This section explains the configuration of the DX200 equipment.



For the models not described in this manual, refer to the DX200 instructions supplement.

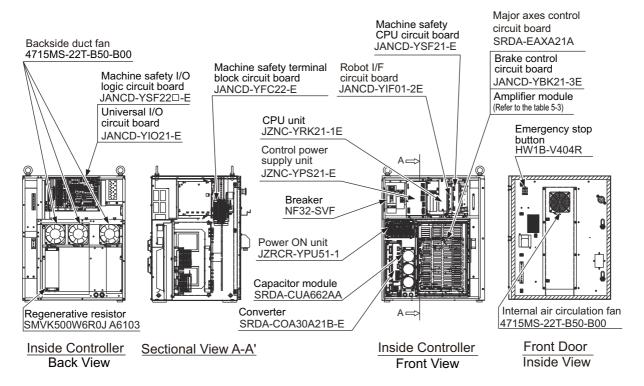
1.1 Arrangement of Units and Circuit Boards

1.1.1 Arrangement

The arrangements of units and circuit boards in small-capacity, medium-capacity, and large-capacity DX200s are shown.

1.1.1.1 Small-Capacity DX200 Controller

Fig. 1-1: Configuration for Small Capacity

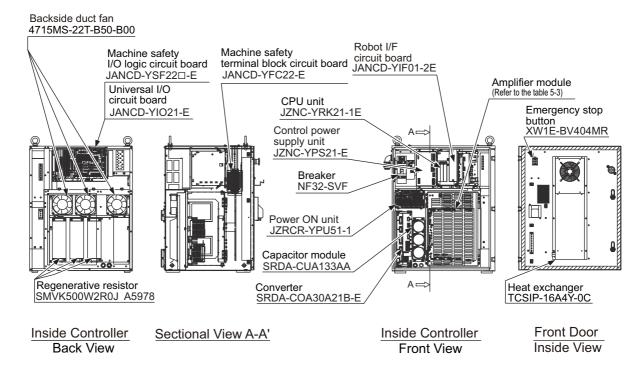


Model	DX200
MA1440	ERER-MA1440/MH12-A00
MH12	

- 1 Equipment Configuration
- 1.1 Arrangement of Units and Circuit Boards

1.1.1.2 Medium and Large-Capacity DX200 Controller

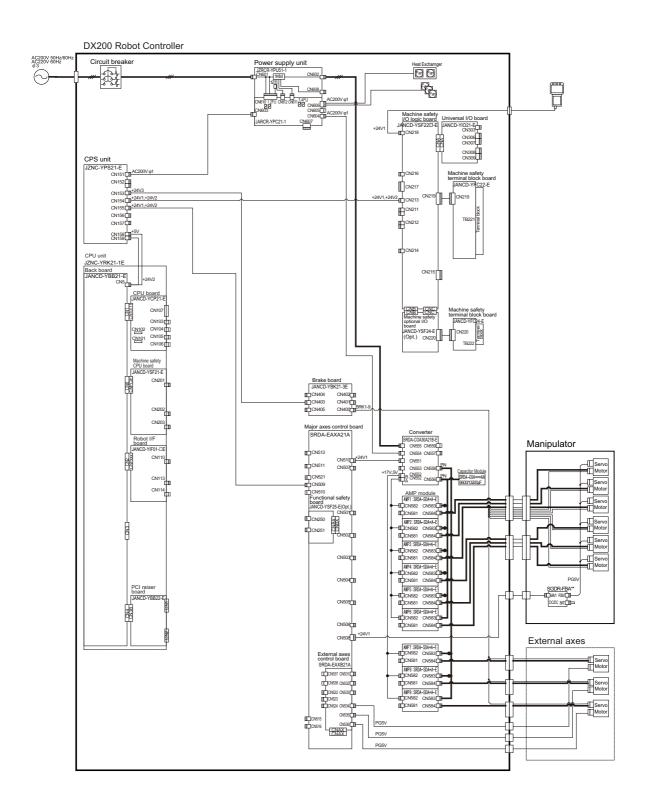
Fig. 1-2: Configuration of Medium and Large Capacity DX200 -A Controller (Standard)



Model	DX200
MS210	ERER-MS210/MH225-A00
MH225	
MS165	ERER-MS165/MH180-A00
MH180	

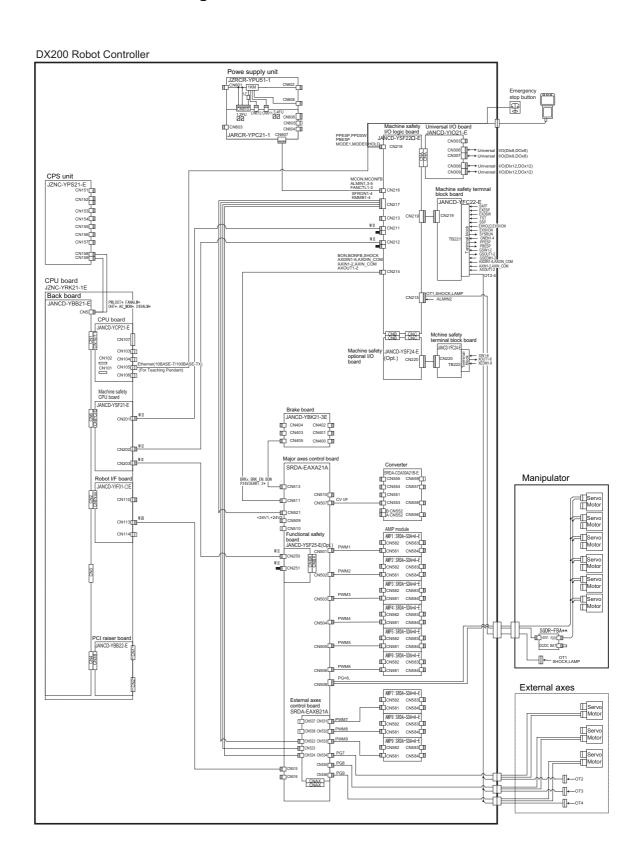
- 1 Equipment Configuration
- 1.2 Power Flow

1.2 Power Flow



- 1 Equipment Configuration
- 1.3 Signal Flow

1.3 Signal Flow



2 Security System

2.1 Protection Through Security Mode Settings

The DX200 modes setting are protected by a security system. The system allows operation and modification of settings according to operator clearance. Be sure operators have the correct level of training for each level to which they are granted access.

2.1.1 Security Mode

There are five security modes "operation mode, editing mode, management mode, safety mode and one time manage mode". Editing mode, management mode and safety mode require a user ID. For the editing mode and the management mode, the user ID should be 4 or more and 16 or less characters with number(s) and symbol(s). As for the safety mode, it should be 9 or more and 16 or less characters with number(s) and symbol(s).

(Significant numbers and symbols: "0 to 9", "-", ".".)

Operating the one time manage mode requires to enter the security code, which is issued by YASKAWA sales representative.

Table 2-1: Security Mode Descriptions

Security Mode	Explanation
Operation Mode	This mode allows basic operation of the robot (stopping, starting, etc.) for people operating the robot work on the line.
Editing Mode	This mode allows the operator to teach and edit jobs and robot settings.
Management Mode	This mode allows those authorized to set up and maintain robot system: parameters, system time and modifying user IDs.
Safety Mode	This mode allows the operator to setup the safety function, and able to edit the files related to the safety function. When the optional function "functional safety" is valid, the security is changed to the safety mode to edit the some files, such as the tool file. Refer to "DX200 OPTIONS INSTRUCTIONS FOR FUNCTIONAL SAFETY BOARD OPERATION (HW1481991)" for more details.
One Time Manage Mode	This mode allows to operator to maintain the mode which is higher than the management mode. The loading limitation of the batch data (CMOS.BIN), the parameter batch data (ALL.PRM) and the functional definition parameter (FD.PRM) are removed.

Table 2-2: Menu & Security Mode (Sheet 1 of 4)

Main Menu	Sub Menu	Allowed Secu	Allowed Security Mode		
		DISPLAY	EDIT		
JOB	JOB	Operation	Edit		
	SELECT JOB	Operation	Operation		
	CREATE NEW JOB ¹⁾	Edit	Edit		
	MASTER JOB	Operation	Edit		
	JOB CAPACITY	Operation	-		
	RES. START (JOB) ¹⁾	Edit	Edit		
	RES. STATUS ²⁾	Operation	-		
	CYCLE	Operation	Operation		
	TRASH JOB LIST ³⁾	Edit	Edit		
	JOB EDIT (PLAY)	Edit	Edit		
	PLAY EDIT JOB LIST	Edit	Edit		
VARIABLE	BYTE	Operation	Edit		
	INTEGER	Operation	Edit		
	DOUBLE	Operation	Edit		
	REAL	Operation	Edit		
	STRING	Operation	Edit		
	POSITION (ROBOT)	Operation	Edit		
	POSITION (BASE)	Operation	Edit		
	POSITION (ST)	Operation	Edit		
	LOCAL VARIABLE	Operation	-		
IN/OUT	EXTERNAL INPUT	Operation	Edit		
	EXTERNAL OUTPUT	Operation	Edit		
	UNIVERSAL INPUT	Operation	Operation		
	UNIVERSAL OUTPUT	Operation	Operation		
	SYSTEM INPUT	Operation	-		
	SYSTEM OUTPUT	Operation	-		
	RIN	Operation	-		
	CPRIN	Operation	-		
	REGISTER	Operation	Management		
	AUXILIARY RELAY	Operation	-		
	CONTROL INPUT	Operation	-		
	PSEUDO INPUT SIG	Operation	Management		
	NETWORK INPUT	Operation	-		
	NETWORK OUTPUT	Operation	-		
	ANALOG OUTPUT	Operation	-		
	SV POWER STATUS	Operation	-		
	LADDER PROGRAM	Management	Management		
	I/O ALARM	Management	Management		
	I/O MESSAGE	Management	Management		
	TERMINAL	Operation	Edit		
	I/O SIMULATION LIST	Management	Management		
	SERVO ON FACTOR	Management	-		
	SERVO OFF FACTOR	Operation	-		

2 2.1 Security System Protection Through Security Mode Settings

Table 2-2: Menu & Security Mode (Sheet 2 of 4)

Main Menu	Sub Menu	Allowed Security Mode	
		DISPLAY	EDIT
ROBOT	CURRENT POSITION	Operation	-
	COMMAND POSITION	Operation	-
	SERVO MONITOR	Management	-
	WORK HOME POS	Operation	Edit
	SECOND HOME POS	Operation	Edit
	DROP AMOUNT	Management	Management
	POWER ON/OFF POS	Operation	-
	TOOL	Edit	Edit
	INTERFERENCE	Management	Management
	SHOCK SENS LEVEL	Operation	Edit
	USER COORDINATE	Edit	Edit
	HOME POSITION	Management	Management
	MANIPULATOR TYPE	Management	-
	ANALOG MONITOR	Management	Management
	OVERRUN&S-SENSOR ¹⁾	Operation	Operation
	LIMIT RELEASE ¹⁾	Edit	Edit
	ARM CONTROL ¹⁾	Management	Management
	SHIFT VALUE	Operation	-
	SOFTLIMIT SETTING	Management	Management
	SHOCK SEN LV.(CURRENT)	Operation	-
SYSTEM INFO	VERSION	Operation	-
	MONITORING TIME	Operation	Management
	ALARM HISTORY	Operation	Management
	I/O MSG HISTORY	Operation	Management
	USER DEFINITION MENU	Operation	Edit
	SECURITY	Operation	Operation
EX.MEMORY	LOAD	Edit	-
	SAVE	Operation	-
	VERIFY	Operation	-
	DELETE	Operation	-
	DEVICE	Operation	Operation
	FOLDER	Operation	Management
	INITIALIZE ¹⁾	Operation	-

Table 2-2: Menu & Security Mode (Sheet 3 of 4)

Main Menu	enu Sub Menu		Allowed Security Mode	
		DISPLAY	EDIT	
PARAMETER	S1CxG	Management	Management	
	S2C	Management	Management	
	S3C	Management	Management	
	S4C	Management	Management	
	A1P	Management	Management	
	A2P	Management	Management	
	A3P	Management	Management	
	A4P	Management	Management	
	A5P	Management	Management	
	A6P	Management	Management	
	A7P	Management	Management	
	A8P	Management	Management	
	RS	Management	Management	
	S1E	Management	Management	
	S2E	Management	Management	
	S3E	Management	Management	
	S4E	Management	Management	
	S5E	Management	Management	
	S6E	Management	Management	
	S7E	Management	Management	
	S8E	Management	Management	
SETUP	TEACHING COND.	Edit	Edit	
	OPERATE COND.	Management	Management	
	OPERATE ENABLE	Management	Management	
	FUNCTION ENABLE	Management	Management	
	JOG COND.	Management	Management	
	PLAYBACK COND.	Management	Management	
	FUNCTION COND.	Management	Management	
	DISPLAY COLOR COND.	Edit	Edit	
	DATE/TIME	Management	Management	
	GRP COMBINATION ²⁾	Management	Management	
	SET WORD	Edit	Edit	
	RESERVE JOB NAME	Edit	Edit	
	USER ID	Edit	Edit	
	SET SPEED	Management	Management	
	KEY ALLOCATION	Management	Management	
	JOG KEY ALLOC.	Edit	Management	
	RES. START (CNCT)	Management	Management	
	AUTO BACK SET	Management	Management	
	WRONG DATA LOG	Edit	Management	
	ENERGY SAVING FUNCTION	Edit	Management	
	ENCODER MAINTENANCE	Edit	Management	
SAFETY FUNC.	M-SAFETY SIGNAL ALLOC	Operation	Management	
	TIMER DELAY SET	Operation	Management	
	SAFETY LOGIC CIRCUIT	Operation	Management	

2.1 Protection Through Security Mode Settings

Table 2-2: Menu & Security Mode (Sheet 4 of 4)

Main Menu	Sub Menu	Allowed Security Mode	
		DISPLAY	EDIT
PM	PM (REDUCER)	Operation	Management
	INSPECTION RECORD	Operation	Management
DISPLAY SETUP	CHANGE FONT	Operation	Operation
	CHANGE BUTTON	Operation	Operation
	INITIALIZE LAYOUT	Operation	Operation
	CHANGE WINDOW PATTERN	Operation	Operation

ARC WELDING	ARC START COND.	Operation	Edit
	ARC END COND.	Operation	Edit
	ARC AUX COND.	Operation	Edit
	POWER SOURCE COND.	Operation	Edit
	ARC WELD DIAG.	Operation	Edit
	WEAVING	Operation	Edit
	ARC MONITOR	Operation	Edit
	ARC MONITOR (SAMPL)	Operation	-
	APPLI COND.	Management	Management
HANDLING	HANDLING DIAGNOSIS	Operation	Edit
SPOT	WELD DIAGNOSIS	Operation	Edit
WELDING	I/O ALLOCATION	Management	Management
	GUN CONDITION	Management	Management
	SPOT POWER SOURCE COND.	Management	Management
	APPLICATION CONDITION SETTING	Management	Management
SPOT	WELD DIAGNOSIS	Operation	Edit
WELDING (MOTOR GUN)	GUN PRESSURE	Edit	Edit
(MOTOR GUN)	PRESSURE	Edit	Edit
	I/O ALLOCATION	Management	Management
	GUN CONDITION	Management	Management
	CLEARANCE SETTING	Operation	Edit
	SPOT POWER SOURCE COND.	Management	Management
	TIP INSTALLATION	Operation	Management
	APPLICATION SETTING	Management	Management
GENERAL	WEAVING	Operation	Edit
	GENERAL DIAG.	Operation	Edit
COMMON TO ALL APPLICATIONS	I/O VARIABLE CUSTOMIZE	Operation	Operation

¹ Displayed in the teach mode only.

² Displayed in the play mode only.

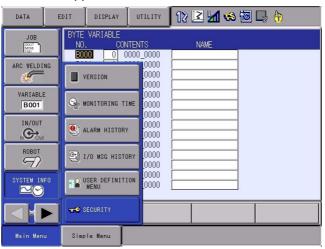
³ Displayed when the job reconstruction function is valid.

^{*}As for the menu and the security mode when the functional safety is valid, refer to "DX200 OPTIONS INSTRUCTIONS FOR FUNCTIONAL SAFETY BOARD OPERATION (HW1481991)" for more details.

- 2 Security System
- 2.1 Protection Through Security Mode Settings

2.1.1.1 Changing the Security Mode

- 1. Select {SYSTEM INFO} under the main menu.
 - The sub menu appears.



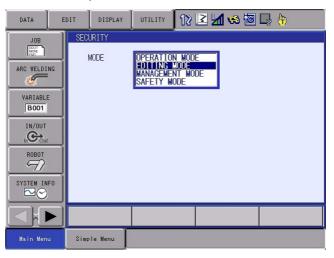
Note: Icons for the main menu such as arc welding system differ depending on the system being used.

2. Select {SECURITY}.

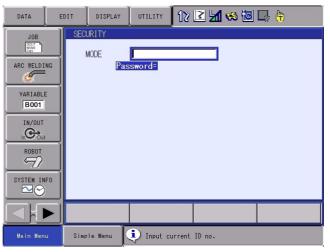
- The selection window of security mode appears.



- 2 Security System
- 2.1 Protection Through Security Mode Settings
 - Security mode can be selected from "OPERATION MODE",
 "EDITING MODE", "MANAGEMENT MODE" or "SAFETY MODE".



- 3. Select the security mode to change.
 - If the selected security mode is lower than the current security level, the password will be required.



- 4. Enter the password.
 - The following user ID numbers are set as default.

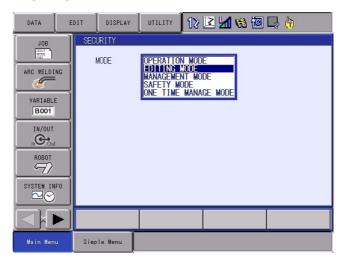
Editing Mode: [0000000000000000]
Management Mode: [99999999999999]
Safety Mode: [555555555555555]

- 5. Press [ENTER].
 - If the password is correct, the security mode will be changed.

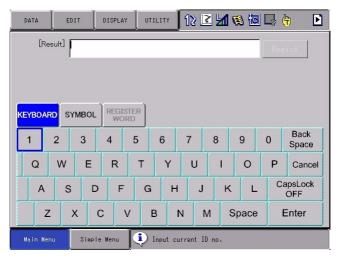
- 2 Security System
- 2.1 Protection Through Security Mode Settings

■ Procedures to Change the Mode to the One Time Management Mode

- 1. Change to the management mode.
 - When changing to the management mode, security mode can be selected from "OPERATION MODE", "EDITING MODE", "MANAGEMENT MODE", "SAFETY MODE" or "ONE TIME MANAGE MODE".



- 2. Select "ONE TIME MANAGE MODE".
 - A character string input keypad is displayed. Input the one time security code, which is issued by YASKAWA sales representative.
 - If the password is correct, the security mode will be changed.



- 2 Security System
- 2.1 Protection Through Security Mode Settings

2.1.2 User ID

User ID is requested when Editing Mode, Management Mode or Safety Mode is operated.

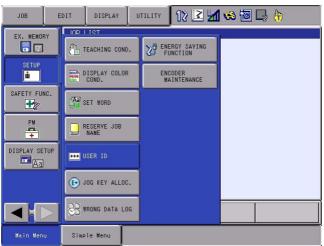
The user ID should be 4 or more and 16 or less characters with number(s) and symbol(s) for the editing mode and the management mode. As for the safety mode, it should be 9 or more and 16 or less characters with number(s) and symbol(s).

(Significant numbers and symbols: "0 to 9", "-", ".".)

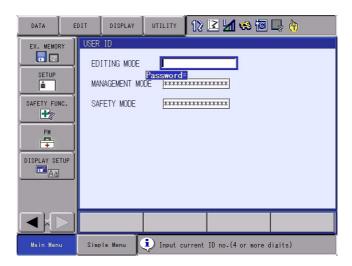
2.1.2.1 Changing a User ID

In order to change the user ID, the DX200 must be in Editing Mode, Management Mode or Safety Mode. Higher security modes can make changes the user ID of to lower security modes.

- 1. Select {SETUP} under the main menu.
 - The sub menu appears.



- 2. Select {USER ID}.
 - The USER ID window appears.



- 2 Security System
- 2.1 Protection Through Security Mode Settings
- 3. Select the desired ID.
 - The character input line appears, and a message "Input current ID no. (4 or more digits)" appears.
 (As for the safety mode, 9 or more digits) Select the desired ID.



- 4. Input the current ID and press [ENTER].
 - When the correct user ID is entered, a new ID is requested to be input. "Input new ID no.(4 or more digits)" appears. (As for the safety mode, 9 or more digits)



- 5. Input new ID and press [ENTER].
 - User ID is changed.

- 2 Security System
- 2.1 Protection Through Security Mode Settings

2.1.3 Main CPU CF-ID

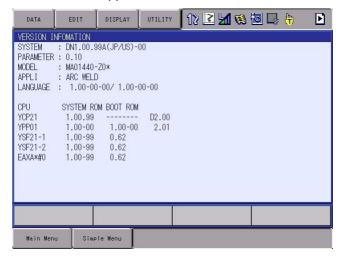
To display the Main CPU CF-ID is described below.

The main CPU CF-ID is necessary to issue the one time security code.

1. Change the security mode to the management mode.



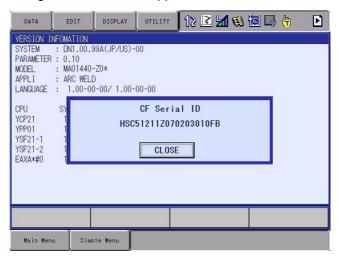
- 2. Select {SYSTEM INFO} in the main menu.
 - The sub menu appears.
- 3. Select {VERSION}.
 - VERSION window appears.



- 2 Security System
- 2.1 Protection Through Security Mode Settings
- 4. Select {UTILITY} under the pull-down menu.
 - "CF Serial ID" appears.



- 5. Select "CF Serial ID".
 - CF dialog of the main CPU appears.



3 Inspections

3.1 Regular Inspections



 Do not touch the cooling fan or other equipment while the power is turned ON.

Failure to observe this caution may result in electric shock or injury.

Carry out the following inspections.

Inspection Equipment	Inspection Item	Inspection Frequency	Comments
DX200 Controller	Check that the doors are completely closed	Daily	
	Check for gaps or damage to the sealed construction	Monthly	
Interior circulation fan, backside duct fan and fan for the heat exchanger	Check operation	As required	While power ON
Emergency stop button	Check operation	As required	While servo ON
Enable switch	Check operation	As required	In teach mode
Battery	Confirm battery alarm or message is displayed or not	As required	
Power Supply	Check power supply voltage is normal	As required	
Circuit Breaker Lead Cables	Check falling out, loosing or breaking of the lead cables Check the correlate voltage	As required	

3.2 DX200 Inspections

3.2.1 Checking if the Doors are Firmly Closed

- The DX200 has a fully sealed construction, designed to keep external air containing oil mist out of the DX200.
 Be sure to keep the DX200 doors fully closed at all times, even when the controller is not operating.
- When opening or closing the doors for maintenance, use the screwdriver after the main power is turned OFF. (CW: Open, CCW: Close) Make sure to push the door and turn the door-lock with the driver to open or close the door. When closing the door, turn the door lock until it clicks.

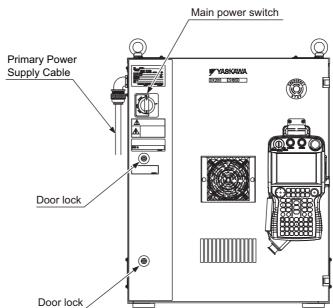


Fig. 3-1: DX200 Front View

3.2.2 Checking for Gaps or Damage in the Sealed Construction Section

- Open the door and check that the seal around the door is undamaged.
- Check that the inside of the DX200 is not stained badly. If it is, determine the cause, take measures and immediately clean it.
- Firmly lock each door and check that no excessive gaps exist around the edge of the door.

- 3 Inspections
- 3.3 Cooling Fan Inspections

3.3 Cooling Fan Inspections

Before the Cooling Fan Inspections

In principle, the door must not be opened to prevent electric shock while power is on. However, it is required to open the door if the cooling fan must be inspected. Exercise extreme care in this case.



WARNING

- To perform this operation, it is required to open the door of the control box while power is on.
- A heavy current (AC200V) flows inside the control box. Do not touch the internal unit.

Failure to observe this warning may result in electric shock.

 Close the door as soon as the maintenance work such as the inspection and check of cooling fan is completed.

Failure to observe this warning may result in electric shock.

<How to Open and Close the Door>

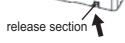


< Excerpt from information materials of manufacturers >

Door Lock Mechanism

The door of the control box can be opened at the OFF position. The door of the control box cannot be opened at the ON or trip position because it is locked at these positions.

However, pressing the release section in the arrow direction with a tool (3mm wide, 1.8mm thick) makes it possible to open the door locked at the ON or trip position.





WARNING

 Close the door as soon as the maintenance work such as the inspection and check of cooling fan is completed.

Failure to observe this warning may result in electric shock.

Cooling Fan Inspections

Inspect the cooling fans as required. A defective fan can cause the DX200 to malfunction because of excessive high temperatures inside if the cooling fans and the heat exchanger do not operate efficiently.

The heat exchanger and the internal sir circulation fan normally operate while the power is tuned ON, and the backside duct fan normally operate while the servo power is turned ON. Check if the fans are operating correctly by visual inspection and by feeling air moving into the air inlet and from the outlet.

Fig. 3-2: Cooling Fan Construction for the Small Capacity

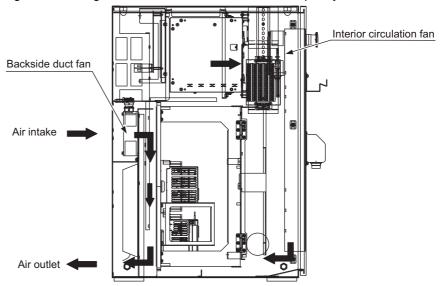
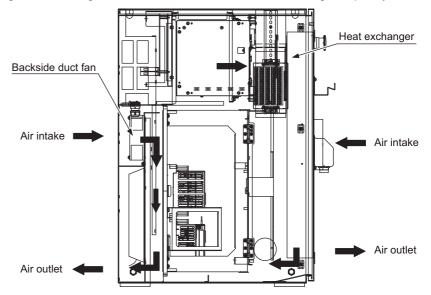


Fig. 3-3: Cooling Fan Construction for Medium and Large Capacity



3 Inspections

3.3 Cooling Fan Inspections



When the message of the "Cooling fan in YPS power supply stopped. Exchange fan" is displayed, it may be caused by the error occurrence at the cooling fan (JZNC-YZU21-E) inside the control power supply unit (JZNC-YPS21-E).

When the message of the "Cooling fan in YPS unit stopped, replace cooling fan" is displayed, carry out an inspection and the replacement of the cooling fan in the YPS unit as soon as possible.

- 3 Inspections
- 3.4 Emergency Stop Button Inspections

3.4 Emergency Stop Button Inspections

The emergency stop buttons are located on both the front door of the DX200 and the programming pendant. Before operating the manipulator, confirm that the servo power is ONFF by pressing the emergency stop button on the front door of the DX200 after the servo is ON.

3.5 Enable Switch Inspections

The programing pendant is equipped with a three-position enable switch. Perform the following operation to confirm the enable switch operates.

 Set the mode switch with key on the programming pendant to "TEACH."

Mode switch with key



2. Press [SERVO ON READY] on the programming pendant. The [SERVO ON] lamp blinks.



3. When the enable switch is grasped lightly, the servo power is turned ON

When the enable switch is grasped firmly or released, the servo power is turned OFF.

If the [SERVO ON] lamp does not light in previous operation (2), check the following:



- The emergency stop button on the front door of the DX200 is pressed.
- The emergency stop button on the programming pendant is pressed.
- The emergency stop signal is input from external.
- If a major alarm is occurring.

3.6 Battery Inspections

The DX200 has a battery that backs up the important program files for user data in the CMOS memory.

A battery alarm indicates when a battery has expired and must be replaced. The programming pendant display and the message "Memory battery weak" appears at the bottom of the display.

Please confirm that the above mentioned message is NOT indicated when inspecting.

The way to replace the battery is described in *chapter 5.1.1.1* "Replacing the Battery" at page 5-4.

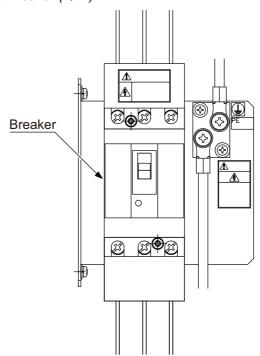
3.7 Power Supply Voltage Confirmation

Check the voltage of 1, 3, 5 terminal of the circuit breaker (QF1) with an electric tester.

Table 3-1: Power Supply Voltage Confirmation

Measuring Items	Terminals	Correct Value
Correlate voltage	Between 1 and 3, 3 and 5, 1 and 5	200 to 220V (+10%, -15%)
Voltage between earth (phase-S ground)	Between 1 and E, 5 and E	200 to 220V (+10%, -15%)
	Between 3 and E	About 0V

Fig. 3-4: Circuit Breaker (QF1)

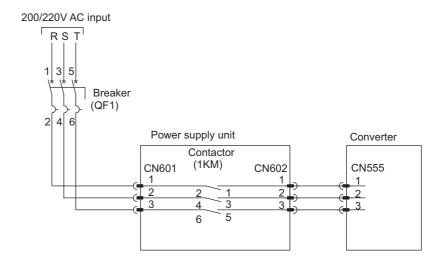


- 3 Inspections
- 3.8 Open Phase Check

3.8 Open Phase Check

Table 3-2: Open Phase Check List

Check Item	Contents
Lead Cable Check	Confirm if the lead cable for the power supply is wired as shown in the following without any falling out, looseness or breaking from the connecting part.
Input Power Supply Check	Check the open phase voltage of input power supply with an electric tester. (Normal value: 200-220VAC (+10%, -15%))
Circuit Breaker (QF1) Check	Turn ON the breaker and check the open phase voltage of "2, 4, 6" of the circuit breaker (QF1) with an electric tester. If abnormal, replace the circuit breaker (QF1).



4 Preparation before Replacing Parts



WARNING

 Before operating the manipulator, check that the SERVO ON lamp turns OFF when the emergency stop buttons on the front door of the DX200 and the programming pendant are pressed.

Injury or damage to machinery may result if the manipulator cannot be stopped in case of an emergency.

- Observe the following precautions when performing teaching operations within the P-point maximum envelope of the manipulator:
 - Be sure to use a lockout device to the safeguarding when going inside.
 Also, display the sign that the operation is being performed inside the safeguarding and make sure no one closes the safeguarding.
 - View the manipulator from the front whenever possible.
 - Always follow the predetermined operating procedure.
 - Keep in mind the emergency response measures against the manipulator's unexpected motion toward you.
 - Ensure that you have a safe place to retreat in case of emergency.

Improper or unintended manipulator operation may result in injury.

- Confirm that no persons are present in the P-point maximum envelope of the manipulator and that you are in a safe location before:
 - Turning ON the DX200 power.
 - Moving the manipulator with the programming pendant

Injury may result if anyone enters the P-point maximum envelope of the manipulator during operation. Always press the emergency stop button immediately if there are problems.

Emergency stop buttons are located at the upper right corner of the front door of the DX200 and on the upper right of the programming pendant.

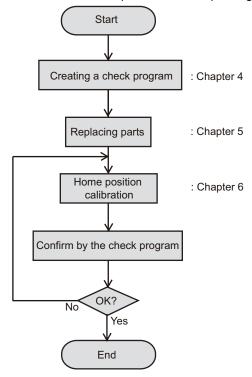


CAUTION

- Perform the following inspection procedures prior to conducting manipulator teaching. If problems are found, repair them immediately, and be sure that all other necessary processing has been performed.
 - Check for problems in manipulator movement.
 - Check for damage to insulation and sheathing of external wires.
 - Always return the programming pendant to the hook on the DX200 cabinet after use.

The programming pendant can be damaged if it is left in the P-point maximum envelope of the manipulator, on the floor, or near fixtures.

The following flowchart shows the operations for replacing parts.



This chapter describes how to create a check program as a preparation for replacing parts. The check program is a program to check the position deviation. If positions are deviated, home position calibration is required. For the calibration, this program data is used to correct the home position data. In the following cases particularly, the home position calibration using the check program is needed. Be sure to create a check program referring to *chapter 4.1 "Creating a Check Program" at page 4-3*.

- 4 Preparation before Replacing Parts
- 4.1 Creating a Check Program
 - Change in the combination of the manipulator and DX200
 - Replacement of the motor or absolute encoder
 - Clearing stored memory (by replacement of YCP21 board, weak battery, etc.)
 - Home position deviation caused by hitting the manipulator against a workpiece, etc.

4.1 Creating a Check Program

To check position deviation whenever necessary, create a program in which a check point is taught (the job for the check point). In the job for the check point, teach two points; one as a check point and the other as the point to approach the check point. This program checks for any deviation between the tool tip position and the check point.

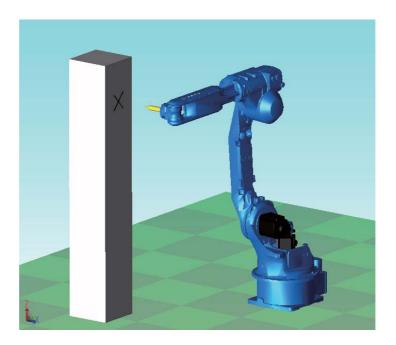
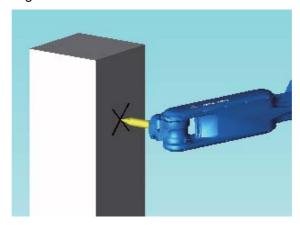


Fig. 4-1: <Enlarged View>



5 Replacing Parts

5.1 Replacing DX200 Parts



Turn OFF the power supply before opening the DX200 doors.

Failure to observe this warning may result in electric shock.

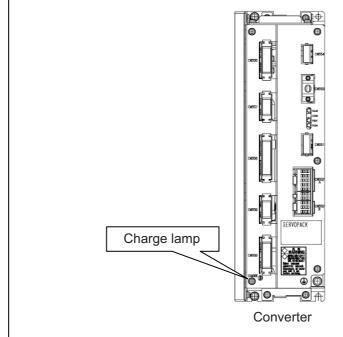
 After turning OFF the power supply, wait at least 5 minutes before replacing a YPS unit. Do not touch any terminals during this period.

Failure to observe this warning may result in electric shock.

 After turning OFF the power supply, wait at least 5 minutes before replacing an amplifier module, a converter, and a capacitor unit. Also, ensure that the charge lamp (red LED) is OFF. (*)

The remaining charged voltage in the capacitor may cause an electric shock or an injury.

(*) If the charge lamp does not go out for a long time, there is a possibility that abnormal power shutdown (such as breaker off or power outage during servo on) occurs. In that case, discharge is possible by turning ON the breaker in the state that the primary power supply is being supplied. Ensure that the charge lamp is turned OFF, and then turn OFF the breaker switch.



Replacing DX200 Parts



WARNING

 To prevent anyone inadvertently turning ON the power supply during maintenance, put up a warning sign such as "DO NOT TURN ON THE POWER" at the primary power supply (knife switch, wiring circuit breaker, etc.) and at the DX200 and related controllers and use accepted lockout/tagout Procedure.

Failure to observe this caution may result in electric shock or injury.

• Do not touch the regeneration resistors. They are very hot.

Failure to observe this caution may result in burn injuries.

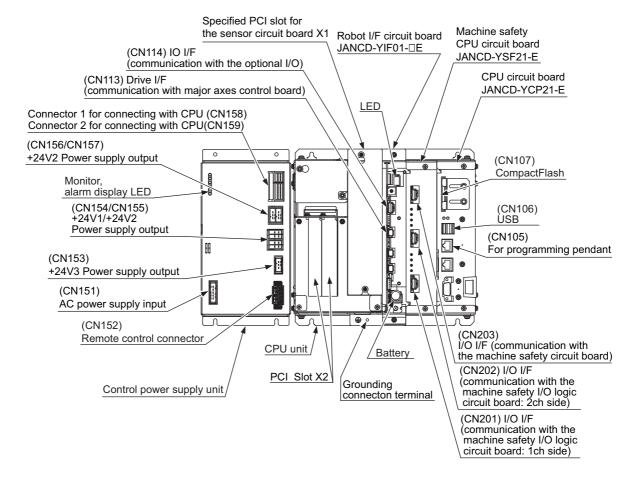
 After maintenance is completed, carefully check that no tools are left inside the DX200 and that the doors are securely closed.

Failure to observe this caution may result in electric shock or injury.

5.1.1 Replacing Parts of the CPU Unit

CPU unit (JZNC-YRK21-1E) is consisted of the various circuit boards, CPU circuit board (JANCD-YCP21-E), machine safety CPU circuit board (JANCD-YSF21-E), and robot I/F circuit board (JANCD-YIF01-□E). CPS unit (JZNC-YPS21-E) is a separated unit and it is arranged to the left side of CPU unit.

Fig. 5-1: Configuration of CPU unit and CPS unit (JZNC-YRK21, JZNC-YPS21-E)



- 5 Replacing Parts
- 5.1 Replacing DX200 Parts

5.1.1.1 Replacing the Battery

The battery must be replaced as soon as the message "Memory battery weak" appears at the programming pendant display.

Replace the battery within two hours after the breaker turns OFF.

■ Replacement Procedure

- 1. Loosen the screws on the battery connector holder and slide it to the right.
- 2. Remove the battery connector (CN110/BAT) on the robot I/F circuit board (JANCD-YIF01-□E) and loosen the fixing screws below the battery to remove the battery.
- 3. Mount a new battery on the robot I/F circuit board and connect the connector (CN110/BAT).
- 4. Slide the battery connector holder to the left and fix it with the screws.
- 5. Please confirm that the above mentioned message is not indicated at the programming pendant display after battery replacement.



Although the CMOS memory is backed up by super capacitor, the battery must be replaced as soon as the message "Memory battery weak" appears.

The job data and other data may be lost if the message "Memory battery weak" appears and the breaker is turned OFF for more than 2 hours.

- 5 Replacing Parts
- 5.1 Replacing DX200 Parts

5.1.1.2 Replacing the CPU circuit board (JANCD-YCP21-E)

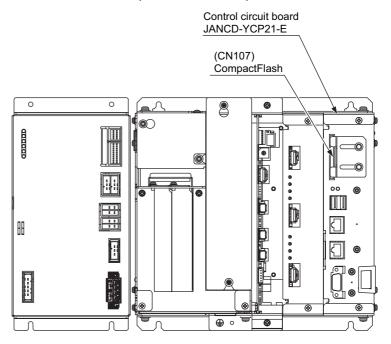
Turn OFF the power before replacing a circuit board.

■ Replacement Procedure

- 1. Disconnect all cables connected to the circuit board.
- 2. Remove screws fixing the circuit board from upper and lower side. (one part at each side)
- 3. Pull out the circuit board from the rack.
- 4. Remove the Compact Flash from the removed circuit board and insert the Compact Flash into a new circuit board.
- 5. Mount the new circuit board to the rack.
- 6. Tighten upper and lower screws.

Connect all disconnected cables.

Fig. 5-2: CPU circuit board (JANCD-YCP21-E)



5.1.1.3 Replacing the YPS Unit (JZNC-YPS21-E)

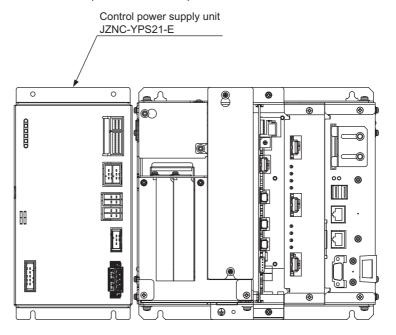


 After turning OFF the power supply, wait at least 5 minutes before replacing a control power supply. Do not touch any terminals during this period. Confirm all monitor lights are turned OFF.

Failure to observe this caution may result in electric shock or injury.

- 1. Disconnect all cables connected to the YPS unit.
- 2. Loosen upper screws (2 places) fixing the YPS unit to the controller.
- 3. Hold to remove the YPS unit itself by pulling out from the controller.
- 4. Insert the lower part flange of the new YPS unit into the fixing jig which is at the bottom of the controller.
- 5. Tighten upper screws.
- 6. Connect all the disconnected cables.

Fig. 5-3: CPS Unit (JZNC-YPS21-E)



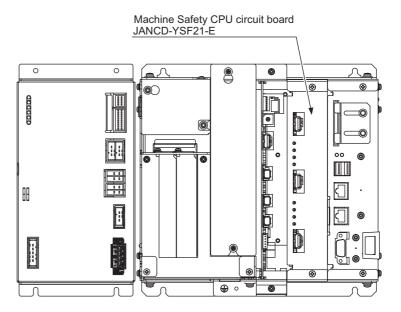
- 5 Replacing Parts
- 5.1 Replacing DX200 Parts

5.1.1.4 Replacing the Machine Safety CPU circuit board (JANCD-YSF21-E)

Turn OFF the power before replacing a circuit board.

- 1. Disconnect all the cables connected to the circuit board.
- 2. Remove two screws fixing the circuit board to the rack.
- 3. Pull out the circuit board from the rack.
- 4. Insert a new circuit board into the slot of the rack, along with the ditch.
- 5. Tighten upper and lower screws.
- 6. Connect all the cables disconnected in the procedure 1.
- 7. Start up the system in maintenance mode and change the security mode to management mode.
- 8. Select $\{FILE\} \Rightarrow \{INITIALIZE\}.$
- 9. Move the cursor and select {Machine Safety Board FLASH Reset}.
- 10. Select {YES} when a confirmation dialog box appeared.
 - Data of the machine safety circuit board is reset. When resetting is completed, a buzzer sounds in a few seconds.
- 11. Turn ON the control power supply.

Fig. 5-4: Machine Safety CPU circuit board (JANCD-YSF21-E)



- 5 Replacing Parts
- 5.1 Replacing DX200 Parts

5.1.1.5 Replacing the Robot I/F circuit board (JZNCD-YIF01- □ E)

- Turn OFF the power before replacing the robot I/F circuit board.
- Be sure to back up robot data before replacing the circuit board since the robot I/F circuit board contains important data such as robot jobs and parameters.
- There are two memory sizes to the robot I/F circuit board: 2 MB and 4 MB.
 Check the used memory size and the mounted memory size in maintenance mode before replacing the robot I/F circuit board.



Normal: JANCD-YIF01-4E (memory size: 2MB) Optional: JANCD-YIF01-2E (memory size: 4MB)

*As for the JANCD-YIF01-2E circuit board, it may be used as 2MB even if its mounted memory size is 4MB.

- There are some versions which require maker mode operations after replacing the robot I/F circuit board.
- Contact your Yaskawa representative for maker mode operations.

- 5 Replacing Parts
- 5.1 Replacing DX200 Parts

■ Check Procedure of Used Memory Size and Mounted Memory Size

Start up the system in maintenance mode, and select {SYSTEM} → {SETUP} → {CMOS MEMORY}.



2. Check "USED SIZE" and "MOUNTED SIZE" in the CMOS MEMORY window.

<Pattern 1>

[JANCD-YIF01-4E circuit board is used]



It can be replaced with "JANCD-YIF01-4E" or "JANCD-YIF01-2E".

*If replace it with "JANCD-YIF01-2E", it is used as its memory size is 2MB.

5.1 Replacing DX200 Parts

<Pattern 2>

[JANCD-YIF01-2E circuit board is used]



It can be replaced with "JANCD-YIF01-4E" or "JANCD-YIF01-2E".

*If replace it with "JANCD-YIF01-2E", it is used as its memory size is 2MB.

<Pattern 3>

[JANCD-YIF01-2E circuit board is used]



It can be replaced with "JANCD-YIF01-2E".

If replace it with "JANCD-YIF01-4E" and the CMOS.BIN data is loaded, the following error occurs.

ERROR 3230 : System not matched



- 5 Replacing Parts
- 5.1 Replacing DX200 Parts

■ Replacement Procedure

1. Back up the robot data.

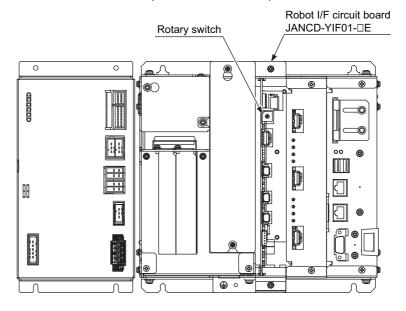
Insert a CF card for backup to the programming pendant, and start the system in maintenance mode.

Select {EX.MEMORY} \Rightarrow {SAVE} \Rightarrow "BATCH CMOS" to save the CMOS data.

Backup all the individual data for safe.

- 2. Turn OFF the power after making backup.
- 3. Disconnect all cables on the robot I/F circuit board.
- 4. Remove two screws fixing the robot I/F circuit board and rack.
- 5. Pull out the robot I/F circuit board from the rack.
- 6. Insert new robot I/F circuit board into the slot of the rack.
- 7. Tighten upper and lower screws of the robot I/F circuit board.
- 8. Connect all the cables disconnected in the procedure 3.
- 9. Set the rotary switch as the same value as the original I/F circuit board.
- 10. Start up the system in maintenance mode and insert the CF card with the backed up data in procedure 1 to the programming pendant. Change the mode from security mode to management mode. Select {EX.MEMORY} ⇒ {LOAD} ⇒ "BATCH CMOS" to start loading the data. After loading, the state returns to the state as before the replacement.

Fig. 5-5: Robot I/F circuit board (JANCD-YIF01- ☐ E)



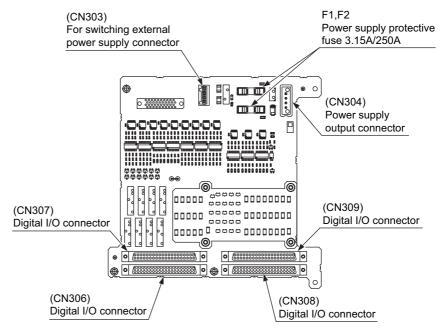
5.1.1.6 Replacing the Universal I/O Unit (JANCD-YIO21-E)



Turn OFF the power before replacing the unit.

- 1. Remove the back circuit board from the upper back of the DX200.
- 2. Remove the cover over the universal I/O circuit board.
- 3. Remove the all cables connected to the universal I/O circuit board.
- 4. Loosen the screws (six places) fixing to the universal I/O circuit board.
- 5. Remove the universal I/O circuit board from the machine safety I/O logic circuit board (JANCD-YSF22□-E).
- 6. Insert the new universal I/O circuit board connector (CNA) into the machine safety I/O logic circuit board (JANCD-YSF22□-E) connector (CNA).
- 7. Tighten the six fixing screws of the universal I/O circuit board firmly.
- 8. Reinstall the all disconnected cables from the universal I/O circuit board.
- 9. Replace the cover on the universal I/O circuit board.
- 10. Replace the back circuit board on the upper back of the DX200.

Fig. 5-6: Universal I/O circuit board (JANCD-YIO21-E)



- 5 Replacing Parts
- 5.1 Replacing DX200 Parts

5.1.1.7 Replacing the Power ON Unit (JZRCR-YPU5 \square - Δ)

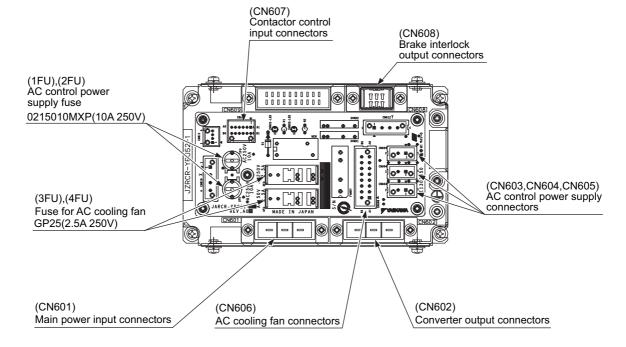


Turn OFF the power before replacing the unit.

- 1. Remove the cover of the power ON unit.
- Disconnect all the cables connected to the power supply unit.
 Loosen the upper and lower side screws (four places) fixing the power ON unit to the controller, and remove the power ON unit.

 *Do not hold the circuit board only, but hold it together with the unit since it may cause damages to the circuit board or injury.
- Remove the power supply unit from the control circuit board by holding up the upper and lower side cover.
 *Do not hold the circuit board only, but hold it together with the unit since it may cause damages to the circuit board or injury.
- 4. Tighten upper and lower side screws (4 places) firmly to fix the power supply unit.
 - *Do not hold the circuit board only, but hold it together with the unit since it may cause damages to the circuit board or injury.
- 5. Connect all the disconnected cables.
- 6. Reinstall the removed cover from the power supply unit.

Fig. 5-7: Configuration of Power ON Unit (JZRCR-YPU5 \square - Δ)



- 5 Replacing Parts
- 5.1 Replacing DX200 Parts

5.1.1.8 Replacing the Brake Circuit Board (JANCD-YBK21-3E)



Turn OFF the power before replacing the circuit board.

■ Replacement Procedure

- Turn OFF the breaker and the primary power supply and wait at least 5 minutes before replacement. Do not touch any terminals during this period.
- 2. Verify that the converter (SRDA-COA30A21B-E) charge lamp (red LED) is unlit.
- 3. Remove the cover for the EAXA major axes control circuit board.
- 4. Disconnect the all cables from the out side connected to the servo pack. If there are external axes, follow the Procedure from ④ to ⑦.
 - SRDA-EAXA21A

① Encoder signal connector (CN508)② CPS input connector (CN509)

③ DC control power connector (CN510)

- SRDA-EAXB21A (with the external axes)

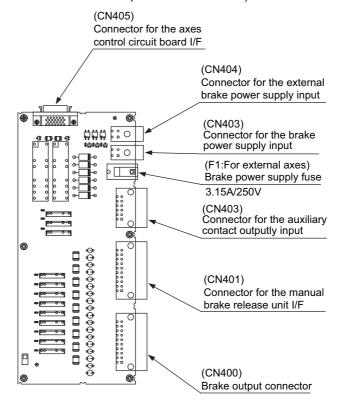
④ AMP I/F connector 7th axis (CN531)

6 AMPI/F connector 9th axis
 (CN533)

① Encoder signal connector 7th axis (CN534)

- 5. Remove the two screws fixing the base of the EAXA circuit board by pulling.
- 6. Open the base for the EAXA circuit board.
- 7. Remove the two screws of the brake circuit board cover fixing the back of the EAXA circuit board.
- 8. Remove the all cables connected to the brake circuit board.*Do not disconnect the jumper wiring connector in the CN404 at this time.
- Remove the six screws fixing to the brake circuit board, and remove the circuit board.
- 10. Mount the new brake circuit board with the six screws described above fixing to the EAXA circuit board firmly.
- 11. Remove the jumper wiring connector from the old brake circuit board, and reinstall it to the new brake circuit board.
- 12. Reinstall the other removed cables, screws and the cover as follow the Procedure from step 7. to 3.

Fig. 5-8: Brake Circuit Board (JANCD-YBK21-3E)



- 5 Replacing Parts
- 5.1 Replacing DX200 Parts

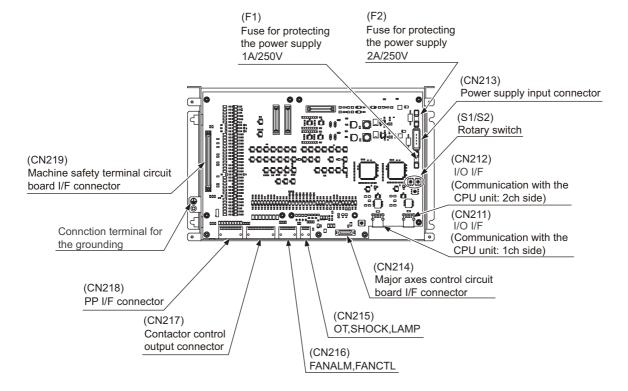
5.1.1.9 Replacing the Machine Safety Logic Circuit board (JANCD-YSF22 □ -E)



Turn OFF the power before replacing the circuit board.

- 1. Remove the back circuit board in the upper location of the back.
- 2. Remove the cover on the universal I/O circuit board.
- Disconnect all the cables connected to the machine safety logic circuit board.
- 4. Loosen four screws fixing the machine safety logic circuit board to the controller, and remove the circuit board.
- Loosen six screws fixing the universal I/O circuit board, and remove the circuit board.
- 6. Remove the universal I/O circuit board from the machine safety logic circuit board (JANCD-YSF22□-E).
- Install the new machine safety logic circuit board to the universal I/O circuit board. (Use the same spigot stud adapter female screw and fixing screws.)
- 8. Tighten four screws to fix the machine safety logic circuit board.
- 9. Connect the all disconnected cables at procedure step 3.
- 10. Reinstall the cover to the universal I/O circuit board.
- 11. Reinstall the back circuit board to the back.

Fig. 5-9: Machine Safety Logic Circuit Board (JANCD-YSF22 □-E)



5.1.2 Replacing the Amplifier Module



 After turning OFF the power supply, wait at least 5 minutes before replacing an amplifier module. Do not touch any terminals during this period.

Failure to observe this warning may result in electric shock.

Replacement Procedure

- Turn OFF the breaker and the primary power supply and wait at least 5 minutes before replacement. Do not touch any terminals during this period.
- 2. Verify that the converter charge lamp (red LED) is unlit.
- 3. Remove the cover to the EAXA major axes control circuit board.
- Disconnect all the cables connected externally to the control circuit board.

If there are external axes, follow the Procedure from 4 to 7 .

SRDA-EAXA21A

① Encoder signal connector (CN508)
 ② CPS input connector (CN509)
 ③ DC control power connector (CN510)

SRDA-EAXB21A (with the external axes)

4 AMP I/F connector 7th axis (CN531)
5 AMP I/F connector 8th axis (CN532)
6 AMPI/F connector 9th axis (CN533)
7 Encoder signal connector 7th axis (CN534)
8 Encoder signal connector 8th axis (CN535)
9 Encoder signal connector 9th axis (CN536)

- 5. Loosen the two snap-in latches fixing the base of the EAXA circuit board by pulling.
- 6. Open the base for the EAXA circuit board.
- 7. Disconnect the all cables connected to the amplifier to be replaced.
- 8. Remove screws fixing the amplifier.

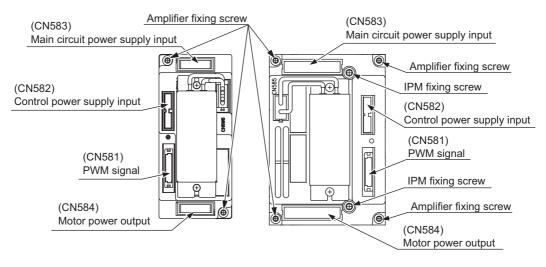
*03 to 21 amplifier: Remove upper left and lower right screws (2 places).

*35 to 71 amplifier: Remove IPM fixing screws (2 places) besides the four corners screws (4 places).

- Mount thermal sheet to the new amplifier. (Refer to Thermal Sheet Mounting Instruction.)
- 10. Mount the new amplifier.
- 11. Connect all the disconnected cables to the new amplifier.
- 12. Reinstall the other removed cables, screws and the cover as follow the Procedure from step 6. to 3.

- 5 Replacing Parts
- 5.1 Replacing DX200 Parts

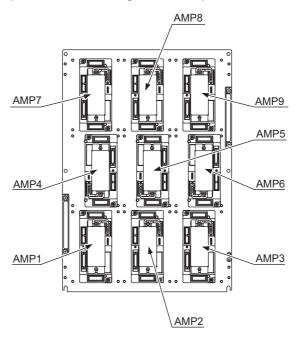
Fig. 5-10: Amplifier Module



SRDA-SDA03 to 21 Amplifier

SRDA-SDA35 and 71 Amplifier

Fig. 5-11: Amplifier Module Arrangement Sample



5.1 Replacing DX200 Parts

Fig. 5-12: Thermal Sheet Mounting Instruction

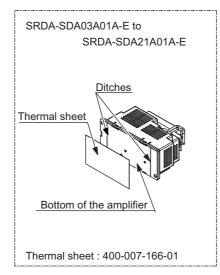
"Thermal sheet mounting instruction"

Affix the thermal sheet to the bottom of the amplifier along the ditches.

- Amplifier: SRDA-SDA03A01A-E~SRDA-SDA21A01A-E
- Affix the thermal sheet to the bottom of the amplifier along its ditches.

Amplifier: SRDA-SDA35A01A-E~SRDA-SDA71A01A-E

True up the edges of the IMP frame and its ditches that are at the bottom of the amplifier, then affix the thermal sheet along the edge.



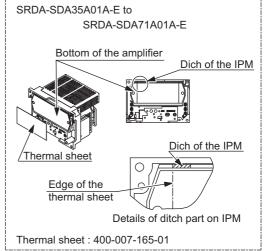
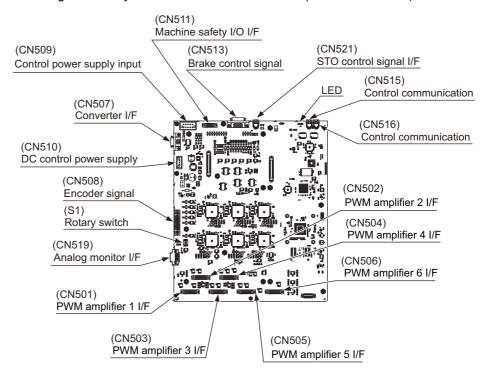


Fig. 5-13: Major Axes Control Circuit Board (SRDA-EAXA21A)



5.1.3 Replacing the Converter (SRDA-COA30A21B-E)



WARNING

 After turning OFF the power supply, wait at least 5 minutes before replacing a converter. Do not touch any terminals during this period.

Failure to observe this warning may result in electric shock.

■ Replacement Procedure

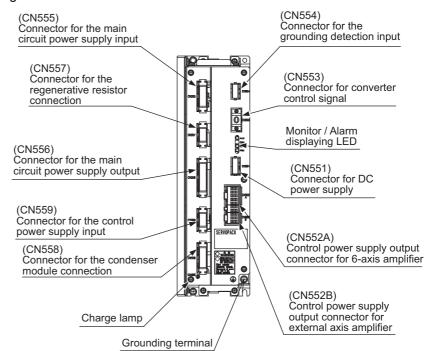
- Turn OFF the breaker and the primary power supply and wait at least 5 minutes before replacement. Do not touch any terminals during this period.
- 2. Verify that the converter charge lamp (red LED) is unlit.
- 3. Disconnect all the cables connected externally to the converter.
 - (1) Ground fault detection input connector (CN554)
 - (2) Converter control signal connector (CN553)
 - (3) DC Control power supply connector (CN551)
 - (4) Main circuit power supply input connector (CN555)
 - (5) Regeneration register connected connector (CN557)
 - (6) Main circuit power supply output connector for 6-axis amplifier (CN556)
 - (7) Control power supply output connector for 6-axis amplifier (CN552A)
 - (8) Control power supply connector (CN559)

Disconnect the following connectors when they are connected.

- (9) Control power supply connector for external axis amplifier (CN552B)
- (10) Capacitor module connector (CN558)
- 4. Remove the grounding wire connected to the converter.
- 5. Remove the two upper screws fixing the converter. Loosen the lower screws fixing the converter.
- 6. Hold the top grip and lift it to pull out the converter by supporting the button by hand.
- Install the new converter and reconnect the connectors in the reverse order of the removing procedure. (Connect the grounding wires firmly.)

5.1 Replacing DX200 Parts

Fig. 5-14: Converter



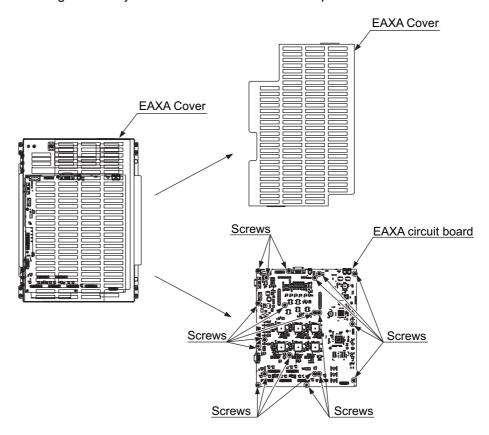
5.1.4 Replacing the Major Axes Control Circuit Board (SRDA-EAXA21A)



Turn OFF the power before replacing the circuit board.

- Turn OFF the breaker and the primary power supply and wait at least 5 minutes before replacement. Do not touch any terminals during this period.
- 2. Verify that the converter charge lamp (red LED) is unlit.
- 3. Remove the cover to the EAXA major axes control circuit board.
- 4. Disconnect all the cables connected externally to the control circuit board.
- 5. Remove the screws (12 places) fixing the control circuit board.
- 6. Remove the control circuit board from the EAXA circuit board base.
- 7. Install the new circuit board in the reverse order of the removing procedure.
- 8. Set the rotary switch to the same value as the removed circuit board's rotary switch.
- 9. Connect the all disconnected cables in the step 4.
- 10. Reinstall the removed cover in the step 3 to the EAXA major axes control circuit board.

Fig. 5-15: Major Axes Control Circuit Board Replacement Procedure



- 5 Replacing Parts
- 5.1 Replacing DX200 Parts

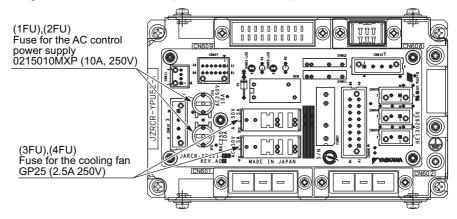
5.1.5 Checking and Replacing Fuses

5.1.5.1 Power ON Unit

The types of fuses on power supply ON unit (JZRCR-YPU5 \square - \triangle) are as follows.

Parts No.	Fuse Name	Specification
1FU, 2FU	AC Control power supply fuse	0215010MXP 10A, 250V, Time lag fuse (LITTEL)
3FU,4FU	AC cooling fan fuse	GP25, 2.5A, 250V (Daito Communication Apparatus Co., Ltd.)

Fig. 5-16: Power ON Unit (JZRCR-YPU5□- △)



If the fuse is blown, replace it with the same type of fuse (supplied or spare parts).



If the fuse seems to be blown, be sure to investigate its cause, or blown again after the replacement.

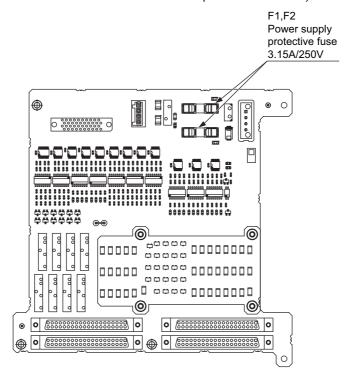
- 5 Replacing Parts
- 5.1 Replacing DX200 Parts

5.1.5.2 Universal I/O Circuit Board

The types of fuses on the universal I/O circuit board (JANCD-YIO21-E) are as follows.

Parts No.	Fuse Name	Specification
F1, F2	24VDC fuse for I/O	02173.15P, 250V,3.15A, Rapid cut fuse (LITTEL)

Fig. 5-17: Universal I/O Circuit Board (JANCD-YIO21-E)



If the fuse is blown, replace it with the same type of fuse (supplied or spare parts).



If the fuse seems to be blown, be sure to investigate its cause, or blown again after the replacement.

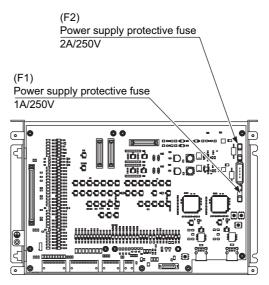
- 5 Replacing Parts
- 5.1 Replacing DX200 Parts

5.1.5.3 Machine Safety Logic Circuit Board

The types of fuses on the machine safety logic circuit board (JANCD-YSF22□-E) are as follows.

Parts No.	Fuse Name	Specification
F1	24VDC fuse for I/O	0217001P, Rapid cut fuse (LITTEL)
F2	24VDC fuse for I/O	0217002P, Rapid cut fuse (LITTEL)

Fig. 5-18: Machine Safety Logic Circuit Board (JANCD-YSF22 □-E)



If the fuse is blown, replace it with the same type of fuse (supplied or spare parts).



- If the fuse seems to be blown, be sure to investigate its cause, or blown again after the replacement.
- If the F1 fuse becomes blown, it will cause a damage on the inner circuit of the board. Replace the board instead of replacing the fuse.

(There is no attached spare of the fuse.)

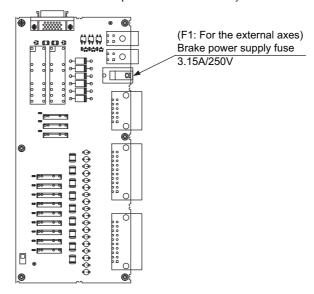
- 5 Replacing Parts
- 5.1 Replacing DX200 Parts

5.1.5.4 Brake Circuit Board

The types of fuse on the brake circuit board (JANCD-YBK21-3E) is as follows.

Parts No.	Fuse Name	Specification
F1	Brake power supply fuse for the external axis	02173.15P, 250V,3.15A, Rapid cut fuse (LITTEL)

Fig. 5-19: Brake Circuit Board (JANCD-YBK21-3E)



If the fuse is blown, replace it with the same type of fuse (supplied or spare parts).



If the fuse seems to be blown, be sure to investigate its cause, or blown again after the replacement.

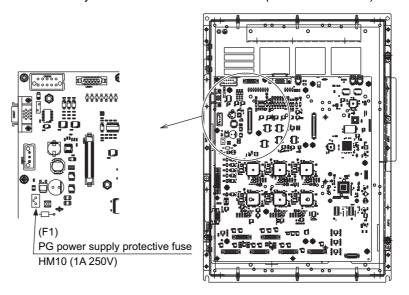
- 5 Replacing Parts
- 5.1 Replacing DX200 Parts

5.1.5.5 Major Axes Control Circuit Board

There is a following fuse in the major axes control circuit board (SRDA-EAXA21A).

Parts No.	Name	Specification
F1	PG power supply protective fuse	HM10 250V, 1A Daito Communication Apparatus Cp.,Ltd

Fig. 5-20: Replacement Fuse of the Major Axes Control Circuit Board (SRDA-EAXA21A)



If the fuse is blown, replace it with the same type of fuse (supplied or spare parts).



If the fuse seems to be blown, be sure to investigate its cause, or blown again after the replacement.

- 5 Replacing Parts
- 5.1 Replacing DX200 Parts

5.1.6 Interior Circulation Fan

5.1.6.1 Replacing the Interior Circulation Fan



Turn OFF the power before replacing the fan.

■ Replacement Procedure (for the Interior Air Circulation Fan)

- Open the door.
- 2. Disconnect the lead wire connected to the fan.
- 3. Remove the two screws of the fan, and remove the interior air circulation fan.
- 4. Install the new fan and reinstall the screws and the lead wire as follow the Procedure from step 3. to 2.

■ Replacement Procedure (for the Interior Fan of the Heat Exchanger)

- 1. Open the door.
- 2. Disconnect the lead wire connected to the terminal block of the heat exchanger.
- 3. Remove the six nuts in the both right and left in the heat exchanger.
- 4. Remove the screws fixing to the inside fan base of the heat exchanger.
- 5. Disconnect the lead wire connected to the inside terminal block of the heat exchanger.
- 6. Remove the two screws of the fan, and remove the interior fan.
- 7. Install the new heat exchanger and reinstall the nuts and the lead wire as follow the Procedure from step 6. to 2.

■ Replacement Procedure (for the Exterior Fan of the Heat Exchanger)

- 1. Open the door.
- 2. Disconnect the lead wire connected to the terminal block of the heat exchanger.
- 3. Remove the six nuts in the both right and left in the heat exchanger.
- 4. Remove the screws fixing to the outside fan base of the heat exchanger.
- 5. Disconnect the lead wire connected to the inside terminal block of the heat exchanger.
- 6. Remove the two screws of the fan, and remove the interior fan.
- 7. Install the new heat exchanger and reinstall the nuts and the lead wire as follow the Procedure from step 6. to 2.

The area around the lead wire is applied with the dust/water-proof in order to separate the air circulation of the both inside and the outside. When replace the fan, follow the replacement procedure correctly.

- 5 Replacing Parts
- 5.1 Replacing DX200 Parts

Fig. 5-21: Replacement of Interior Circulation Fan

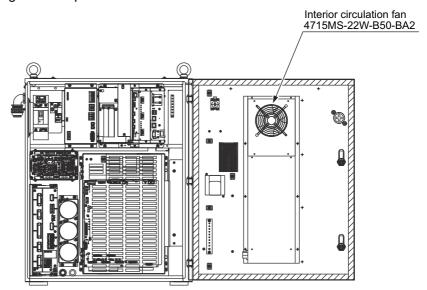
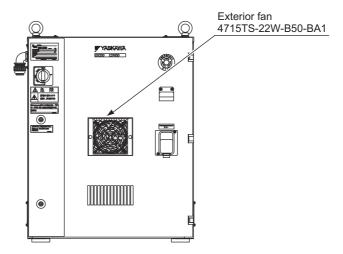


Fig. 5-22: Exterior Fan (Heat Exchanger)



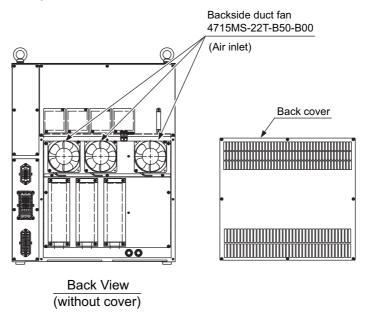
5.1.6.2 Replacing the Backside Duct Fan



Turn OFF the power before replacing the fan.

- 1. Remove the back circuit board.
- 2. Disconnect plug cables connected to the fan. (Remove the grounding wires screwed to the fan.)
- 3. Remove the screws (2 places) fixing the fan.
- 4. Uninstall the fan from the controller.
- 5. Install the new fan to the controller.
- 6. Tighten the screws (2 places) to fix the fan.
- Connect all the disconnected cables. (Connect the grounding wire firmly.)
- 8. Mount the back circuit board.

Fig. 5-23: Replacement of Backside Duct Fan



5.1.7 Replacing the Capacitor Module

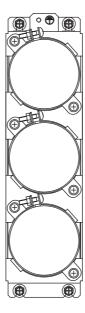


 After turning OFF the power supply, wait at least 5 minutes before replacing a capacitor module. Do not touch any terminals during this period.

Failure to observe this warning may result in electric shock.

- 1. Turn OFF the breaker and the primary power supply and wait at least 5 minutes before replacement. Do not touch any terminals during this period.
- 2. Verify that the converter charge lamp (red LED) is unlit.
- 3. Disconnect all the cables connected to the CN556 of the converter.
- 4. Remove two upper screws and loosen two lower screws fixing the capacitor module, and remove the capacitor module from the control circuit board by pulling.
- 5. Remove the two screws fixing the cover to the back board of the capacitor module, and remove the cover.
- 6. Remove the two screws of the cable connected to the capacitor terminal, and disconnect the cable.
- 7. Reinstall the other removed cables, screws and the cover as follow the Procedure from step 6. to 3.

Fig. 5-24: Capacitor Module



5.2 DX200 Parts List

SUPPLE -MENT For the models not described in this manual, refer to the DX200 instructions supplement.

Table 5-1: DX200 Parts List (For Medium and Large Capacity)

No.	Name	Model	Comment
1	Amplifier Module	1)	
2	Control power supply unit	JZNC-YPS21-E	
3	Converter	SRDA-COA30A21B-E	
4	CPU unit	JZNC-YRK21-1E	
	CPU circuit board	JANCD-YCP21-E	
	Back board	JANCD-YBB21-E	
	PCI raiser board	JANCD-YBB22-E	
5	Robot I/F circuit board	JANCD-YIF01-□E	
6	Machine safety CPU circuit board	JANCD-YSF21-E	
7	Machine safety I/O logic circuit board	JANCD-YSF22□-E	
8	Machine safety terminal circuit board	JANCD-YFC22-E	
9	Universal I/O circuit board	JANCD-YIO21-E	
10	Power ON unit	JZRCR-YPU5□- Δ	
11	Major axes control circuit board	SRDA-EAXA21A	
12	Brake circuit board	JANCD-YBK21-3E	
13	Heat exchanger	TCSIP-16A4Y-0C	
	Interior fan	4715MS-22W-B50-BA2	
	Exterior fan	4715TS-22W-B50-BA2	
14	Backside duct fan	4715MS-22T-B50-B00	
15	Power ON unit fuse	0215010MXP 10A, 250V	Time lag fuse
		GP25 2.5A, 250V	Alarm Fuse
	Universal I/O circuit board fuse	02173.15P 3.15A, 250V	Rapid cut fuse
	Machine safety logic circuit board fuse	0217001P 1A, 250V	Rapid cut fuse
		0217002P 2A, 250V	Rapid cut fuse
	Brake circuit board fuse	02173.15P 3.15A, 250V	Rapid cut fuse
	Major axes control circuit board fuse	HM10 1A, 250V	Micro fuse
16	Battery	ER6VC3N 3.6V	

¹ The type of the amplifier module depends on the manipulator model. For details, see the table "Amplifier Module List."

5 Replacing Parts5.2 DX200 Parts List

Table 5-2: DX200 Parts List (For Small Capacity)

No.	Name	Model	Comment	
1	Amplifier Module	1)		
2	Control power supply unit	JZNC-YPS21-E		
3	Converter	SRDA-COA30A21B-E		
4	CPU unit	JZNC-YRK21-1E		
	CPU circuit board	JANCD-YCP21-E		
	Back board	JANCD-YBB21-E		
	PCI raiser board	JANCD-YBB22-E		
5	Robot I/F circuit board	JANCD-YIF01-□E		
6	Machine safety CPU circuit board	JANCD-YSF21-E		
7	Machine safety I/O logic circuit board	JANCD-YSF22□-E		
8	Machine safety terminal circuit board	JANCD-YFC22□-E		
9	Universal I/O circuit board	JANCD-YIO21-E		
10	Power ON unit	JZRCR-YPU5□- ∆		
11	Major axes control circuit board	SRDA-EAXA21A		
12	Brake circuit board	JANCD-YBK21-3E		
13	Interior fan	4715MS-22T-B50-B00		
14	Backside duct fan	4715MS-22T-B50-B00		
15	Power ON unit fuse	0215010MXP 10A, 250V	Time lag fuse	
		GP25 2.5A, 250V	Alarm Fuse	
	Universal I/O circuit board fuse	02173.15P 3.15A, 250V	Rapid cut fuse	
	Machine safety logic circuit board fuse	0217001P 1A, 250V	Rapid cut fuse	
		0217002P 2A, 250V		
	Brake circuit board fuse	02173.15P 3.15A, 250V	Rapid cut fuse	
	Major axes control circuit board fuse	HM10 1A, 250V	Micro fuse	
16	Battery	ER6VC3N 3.6V		

¹ The type of the amplifier module depends on the manipulator model. For details, see the table "Amplifier Module List."

5 Replacing Parts5.2 DX200 Parts List

Table 5-3: Amplifier Module List

Component			MA1440	MH12	MS210
Amplifier module	AMP1	S	SRDA-SDA14A01A-E	SRDA-SDA14A01A-E	SRDA-SDA71A01A-E
	AMP2	L	SRDA-SDA21A01A-E	SRDA-SDA21A01A-E	SRDA-SDA71A01A-E
	AMP3	U	SRDA-SDA14A01A-E	SRDA-SDA14A01A-E	SRDA-SDA71A01A-E
	AMP4	R	SRDA-SDA06A01A-E	SRDA-SDA06A01A-E	SRDA-SDA35A01A-E
	AMP5	В	SRDA-SDA06A01A-E	SRDA-SDA06A01A-E	SRDA-SDA35A01A-E
	AMP6	Т	SRDA-SDA06A01A-E	SRDA-SDA06A01A-E	SRDA-SDA35A01A-E
Capacitor module			SRDA-CUA662AA	SRDA-CUA662AA	SRDA-CUA133AA

Component			MH225	MS165	MH180
Amplifier module	AMP1	S	SRDA-SDA71A01A-E	SRDA-SDA71A01A-E	SRDA-SDA71A01A-E
	AMP2	L	SRDA-SDA71A01A-E	SRDA-SDA71A01A-E	SRDA-SDA71A01A-E
	AMP3	U	SRDA-SDA71A01A-E	SRDA-SDA71A01A-E	SRDA-SDA71A01A-E
	AMP4	R	SRDA-SDA35A01A-E	SRDA-SDA35A01A-E	SRDA-SDA35A01A-E
	AMP5	В	SRDA-SDA35A01A-E	SRDA-SDA35A01A-E	SRDA-SDA35A01A-E
	AMP6	Т	SRDA-SDA35A01A-E	SRDA-SDA35A01A-E	SRDA-SDA35A01A-E
Capacitor module	•	•	SRDA-CUA133AA	SRDA-CUA133AA	SRDA-CUA133AA

- 5 Replacing Parts
- 5.3 Supplied Parts List

5.3 Supplied Parts List

The supplied parts of DX200 are as follows.

Parts No.1 to 5 are used for fuse for replacement and No. 6, 7 and 8 are used as a tool for connected the I/O.

Table 5-4: Supplied Parts List

No	Parts Name	Dimensions	Pcs	Model	Application
1	10A Glass-Tube fuse		2	0215010MXP 10A, 250V (LITTEL)	JZRCR-YPU5□-Δ (1FU, 2FU)
2	3.15A Glass-Tube fuse		3	02173.15P 3.15A, 250V (LITTEL)	JANCD-YSF22□-E (F1, F2) JANCD-YBK21-3E (F1) JANCD-YIO21-E (F1, F2)
3	2.5A Alarm fuse		2	GP25 2.5A 2.5A, 250V (Daito Communication Apparatus Co., Ltd.)	JZRCR-YPU5□-Δ (3FU,4FU)
4	Micro fuse		1	HM10 1.0A 250V (Daito Communication Apparatus Co., Ltd.)	SRDA-EAXA21A (F1)
5	2A Glass-Tube fuse		1	0217002P 2A, 250V	JANCD-YSF-22□-E(F2)
6	WAGO Connector wiring tool		2	231-131 (WAGO Company of Japan, Ltd.)	JZNC-YPS21-E-CN152
7	WAGO Connector wiring tool		1	734-230 (WAGO Company of Japan, Ltd.)	JANCD-YIO21-E-CN303 JANCD-YSF22□-E- CN211
8	WAGO Terminal block wiring tool		1	210-119SB (WAGO Company of Japan, Ltd.)	JANCD-YFC22-E
9	Cable support		1	HB1400753-1	Back panel of the DX200

- 5 Replacing Parts
- 5.4 Recommended Spare Parts

5.4 Recommended Spare Parts

It is recommended that the following parts and components be kept in stock as spare parts for the DX200. The spare parts list for the DX200 is shown below. Product performance can not be guaranteed when using spare parts from any company other than Yaskawa. To buy the spare parts which are ranked B or C, inform the manufacturing number (or order number) of DX200 to Yaskawa representative. The spare parts are ranked as follows:

- Rank A: Expendable and frequently replaced parts
- Rank B: Parts for which replacement may be necessary as a result of frequent operation
- Rank C: Drive unit



For replacing parts in Rank B or Rank C, contact your Yaskawa representative.



For the models not described in this manual, refer to the DX200 instructions supplement.

Table 5-5: Recommended Spare Parts List of DX200 for MA1440, MH12

Rank	Parts	Name	Туре	Manufacturer	Qty	Qty	Remarks
	No.					per	
						Unit	
A	1	Battery	ER6VC3N 3.6V	TOSHIBA BATTERY CO., LTD.	1	1	
Α	2	Control Power	JZNC-YZU21-E	Yaskawa Electric	1	1	
		Supply Unit Cooling Fan		Corporation			
Α	3	Interior Circulation Fan	4715MS-22T-B50-B00	Minebea Co., Ltd	1	1	
Α	4		4715MS-22T-B50-B00	Minebea Co., Ltd	3	3	
A	5	AC Control Power Supply Fuse	0215010MXP	LITTEL	2	2	
A	6	AC Cooling Fan Fuse	GP25 2.5A,250V	Daito Communication Apparatus Co., Ltd.	22		
A	7	24VDC Fuse for I/O Brake Power Supply Fuse for External Axes	02173.15P 3.15A,250V	LITTEL	3	3	
A	8	PG Power Supply Fuse	HM10 1A,250V	Daito Communication Apparatus Co., Ltd.	1	1	
A	9	DC24V Fuse for I/O	0217002P 2A,250V	LITTEL			
В	10	Amplifier 1, 3	SRDA-SDA14A01A-E	Yaskawa Electric Corporation	2	2	
В	11	Amplifier 2	SRDA-SDA21A01A-E	Yaskawa Electric Corporation	1	1	
В	12	Amplifier 4,5,6	SRDA-SDA06A01A-E	Yaskawa Electric Corporation	3	3	
В	13	Major Axes Control Circuit Board	SRDA-EAXA21A	Yaskawa Electric Corporation	1	1	
В	14	CPU Circuit Board	JANCD-YCP21-E	Yaskawa Electric Corporation	1	1	
В	15	Robot I/F Circuit Board	JANCD-YIF01-□E	Yaskawa Electric Corporation	1	1	
В	16	Machine Safety CPU Circuit Board	JANCD-YSF21-E	Yaskawa Electric Corporation	1	1	
В	17	Machine Safety I/O Logic Circuit Board	JANCD-YSF22□-E	Yaskawa Electric Corporation	1	1	
В	18	Universal I/O Circuit Board	JANCD-YIO21-E	Yaskawa Electric Corporation	1	1	
В	19	Brake Circuit Board	JANCD-YBK21-3E	Yaskawa Electric Corporation	1	1	
С	20	Converter	SRDA-COA30A21B-E	Yaskawa Electric Corporation	1	1	
С	21	CPU Unit	JZNC-YRK21-1E	Yaskawa Electric Corporation	1	1	
С	22	Power ON Unit	JZRCR-YPU5□-Δ	Yaskawa Electric Corporation	1	1	
С	23	Control Power Supply Unit	JZNC-YPS21-E	Yaskawa Electric Corporation	1	1	
С	24	Capacitor Module	SRDA-CUA662AA	Yaskawa Electric Corporation	1	1	
С	25	Programming Pendant	JZRCR-YPP-21-1	Yaskawa Electric Corporation	1	1	With Cable (8M)

5 5.4

Replacing Parts Recommended Spare Parts

Table 5-6: Recommended Spare Parts List of DX200 for MS210

Rank	Parts	Name	Туре	Manufacturer	Qty	Qty	Remarks
	No.					per	
						Unit	
A	1	Battery	ER6VC3N 3.6V	TOSHIBA BATTERY CO., LTD.	1	1	
A	2	Control Power Supply Unit Cooling Fan	JZNC-YZU21-E	Yaskawa Electric Corporation	1	1	
Α	3	Fan for the Heat Exchanger	4715MS-22W-B50-BA2	Minebea Co., Ltd	2	2	
Α	4	Backside Duct Fan	4715MS-22T-B50-B00	Minebea Co., Ltd	3	3	
A	5	AC Control Power Supply Fuse	0215010MXP	LITTEL	2	2	
A	6	AC Cooling Fan Fuse	GP25 2.5A, 250V	Daito Communication Apparatus Co., Ltd.	2	2	
A	7	24VDC Fuse for I/O Brake Power Supply Fuse for External Axes	02173.15P 3.15A, 250V	LITTEL	3	3	
Α	8	PG Power Supply Fuse	HM10 1A, 250V	Daito Communication Apparatus Co., Ltd.	1	1	
Α	9	DC24V Fuse for I/O	0217002P 2A, 250V	LITTEL	1	1	
В	10	Amplifier 1, 2, 3	SRDA-SDA71A01A-E	Yaskawa Electric Corporation	2	2	
В	11	Amplifier 4, 5, 6	SRDA-SDA35A01A-E	Yaskawa Electric Corporation	3	3	
В	12	Major Axes Control Circuit Board	SRDA-EAXA21A	Yaskawa Electric Corporation	1	1	
В	13	CPU Circuit Board	JANCD-YCP21-E	Yaskawa Electric Corporation	1	1	
В	14	Robot I/F Circuit Board	JANCD-YIF01-□E	Yaskawa Electric Corporation	1	1	
В	15	Machine Safety CPU Circuit Board	JANCD-YSF21-E	Yaskawa Electric Corporation	1	1	
В	16	Machine Safety I/O Logic Circuit Board	JANCD-YSF22□-E	Yaskawa Electric Corporation	1	1	
В	17	Universal I/O Circuit Board	JANCD-YIO21-E	Yaskawa Electric Corporation	1	1	
В	18	Brake Circuit Board	JANCD-YBK21-3E	Yaskawa Electric Corporation	1	1	
В	19	Converter	SRDA-COA30A21B-E	Yaskawa Electric Corporation	1	1	
С	20	CPU Unit	JZNC-YRK21-1E	Yaskawa Electric Corporation	1	1	
С	21	Power ON Unit	JZRCR-YPU5□-Δ	Yaskawa Electric Corporation	1	1	
С	22	Control Power Supply Unit	JZNC-YPS21-E	Yaskawa Electric Corporation	1	1	
С	23	Capacitor Module	SRDA-CUA662AA	Yaskawa Electric Corporation	1	1	
С	24	Programming Pendant	JZRCR-YPP-21-1	Yaskawa Electric Corporation	1	1	With Cable (8M)

6 Operations After Replacing Parts



WARNING

 Before operating the manipulator, check that the SERVO ON lamp turns OFF when the emergency stop buttons on the front door of the DX200 and the programming pendant are pressed.

Injury or damage to machinery may result if the manipulator cannot be stopped in case of an emergency.

- Observe the following precautions when performing teaching operations within the P-point maximum envelope of the manipulator:
 - Be sure to use a lockout device to the safeguarding when going inside.
 Also, display the sign that the operation is being performed inside the safeguarding and make sure no one closes the safeguarding.
 - View the manipulator from the front whenever possible.
 - Always follow the predetermined operating procedure.
 - Keep in mind the emergency response measures against the manipulator's unexpected motion toward you.
 - Ensure that you have a safe place to retreat in case of emergency.

Improper or unintended manipulator operation may result in injury.

- Confirm that no persons are present in the P-point maximum envelope of the manipulator and that you are in a safe location before:
 - Turning ON the DX200 power.
 - Moving the manipulator with the programming pendant

Injury may result if anyone enters the P-point maximum envelope of the manipulator during operation.

Always press the emergency stop button immediately if there are problems.

Emergency stop buttons are located at the upper right corner of the front door of the DX200 and on the upper right of the programming pendant.



CAUTION

- Perform the following inspection procedures prior to conducting manipulator teaching. If problems are found, repair them immediately, and be sure that all other necessary processing has been performed.
 - Check for problems in manipulator movement.
 - Check for damage to insulation and sheathing of external wires.
 - Always return the programming pendant to the hook on the DX200 cabinet after use.

The programming pendant can be damaged if it is left in the P-point maximum envelope of the manipulator, on the floor, or near fixtures.

6.1 Home Position Calibration

6.1.1 Home Position Calibration

Teaching and playback are not possible before home position calibration is complete.



In a system with two or more manipulators, the home position of all the manipulators must be calibrated before starting teaching or playback.

Set the security mode to the management mode to perform home position calibration.

Home position calibration is an operation in which the home position and absolute encoder position coincide. Although this operation is performed prior to shipment at the factory, the following cases require this operation to be performed again.

- Change in the combination of the manipulator and DX200
- Replacement of the motor or absolute encoder
- Clearing stored memory (by replacement of YIF01 circuit board, weak battery, etc.)
- Home position deviation caused by hitting the manipulator against a workpiece, etc.

To calibrate the home position, use the axis keys to calibrate the mark for the home position on each axis so that the manipulator can take its posture for the home position. There are two operations for home position calibration:

- · All the axes can be moved at the same time
- · Axes can be moved individually

If the absolute data of the home position is already known, set the absolute data again after completing home position registration.

Home Position



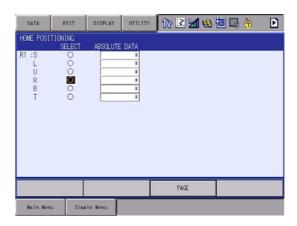
The home position is the position with the pulse value "0" for each axis. See *chapter 6.1.3 "Manipulator Home Position"* at page 6-9.

- 6 Operations After Replacing Parts
- 6.1 Home Position Calibration

6.1.2 Calibrating Operation

6.1.2.1 Registering All Axes at One Time

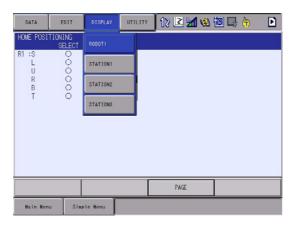
- 1. Select {ROBOT} under the main menu.
- 2. Select {HOME POSITION}.
 - The HOME POSITIONING window appears.

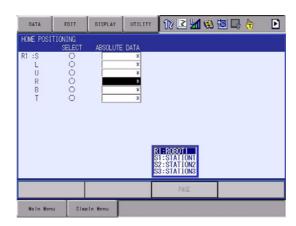


3. Select {DISPLAY} under the menu,

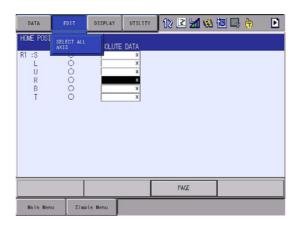
or select "PAGE" to display the selection window for the control group, or press [PAGE].

- The pull-down menu appears.

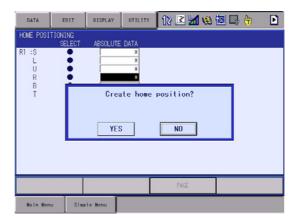




- 6 Operations After Replacing Parts
- 6.1 Home Position Calibration
- 4. Select the desired control group.
- 5. Select {EDIT} under the menu.
 - The pull-down menu appears.



- 6. Select (SELECT ALL AXES).
 - The confirmation dialog box appears.



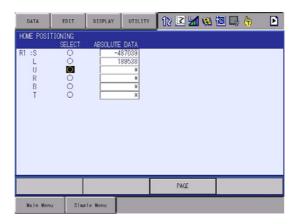
7. Select "YES."

Displayed position data of all axes are registered as home position.
 When "NO" is selected, the registration will be canceled.

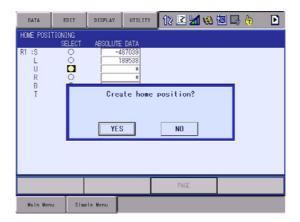
- 6 Operations After Replacing Parts
- 6.1 Home Position Calibration

6.1.2.2 Registering Individual Axes

- 1. Select {ROBOT} under the main menu.
- 2. Select {HOME POSITION}.
- 3. Select the desired control group.
 - Perform steps 3 and 4 which have been described in "Registering All Axes at One Time" to select the desired control group.
- 4. Select the axis to be registered.



- The confirmation dialog box appears.



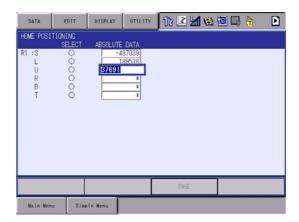
- 5. Select "YES".
 - Displayed position data of the axis are registered as home position.
 When "NO" is selected, the registration will be canceled.

- 6 Operations After Replacing Parts
- 6.1 Home Position Calibration

6.1.2.3 Changing the Absolute Data

To change the absolute data of the axis when home position calibration is completed, perform the following:

- 1. Select {ROBOT} under the main menu.
- 2. Select {HOME POSITION}.
- 3. Select the desired control group.
 - Perform steps 3 and 4 which have been described in "Registering All Axes at One Time" to select the desired control group
- 4. Select the absolute data to be registered.
 - The number can now be entered.

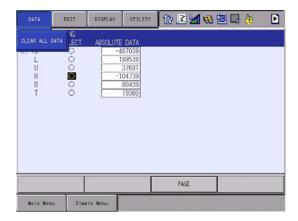


- 5. Enter the absolute data using the numeric keys.
- 6. Press [ENTER].
 - Absolute data are modified.

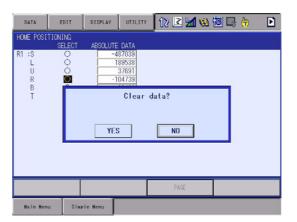
- 6 Operations After Replacing Parts
- 6.1 Home Position Calibration

6.1.2.4 Clearing Absolute Data

- 1. Select {ROBOT} under the main menu.
- 2. Select {HOME POSITION}.
 - Perform steps 2, 3, and 4 which have been described in "Registering All Axes at One Time" to display the HOME POSITIONING window and select the desired control group.
- 3. Select {DATA} under the menu.
 - The pull-down menu appears.



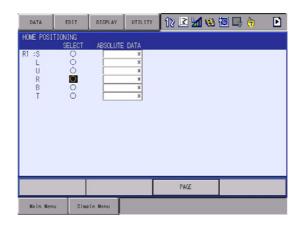
- 4. Select (CLEAR ALL DATA).
 - The confirmation dialog box appears.



- 6 Operations After Replacing Parts
- 6.1 Home Position Calibration

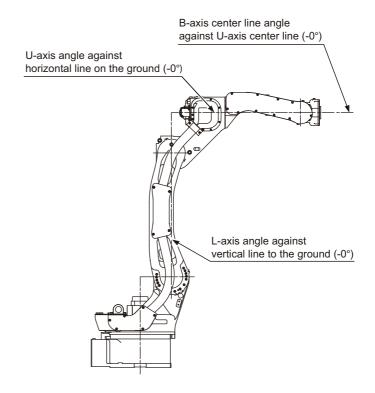
5. Select "YES".

 The all absolute data are cleared. When "NO" is selected, the operation will be canceled.



6.1.3 Manipulator Home Position

With the MOTOMAN-VA1400, the home position is as follows.



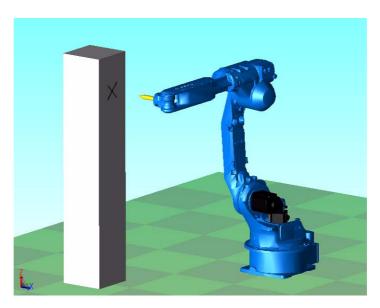


Other manipulator models have different positions. Always consult the documentation for the correct manipulator model.

6.2 Position Deviation Check Using the Check Program

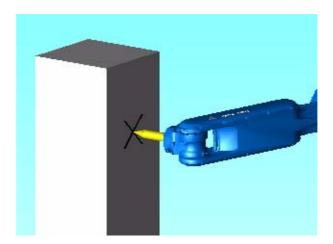
Use the check program to check if positions are deviated with the following procedure.

1. Call up the check program in which the check point is taught (the job for) and operate the manipulator at low speed.



2. Check the tool tip position.

- If it points the check point exactly as shown in the following figure, there is no deviation from the positions. Proceed to chapter 6.4 "Setting the Second Home Position (Check Point)" at page 6-13.
- If not, there is a deviation. When the motor or encoder, etc. was replaced, move the corresponding axis only, when the stored memory was cleared or the manipulator was hit against a workpiece, move all axes, to the check point by joint motion. Then, proceed to chapter 6.3.3 "Home Position Data Correction" at page 6-12.

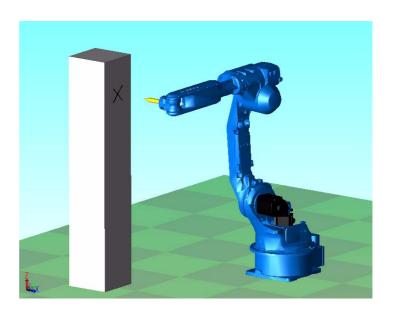


- 6 Operations After Replacing Parts
- 6.3 Checking of the Check Program

6.3 Checking of the Check Program

6.3.1 Motion of the Check Program

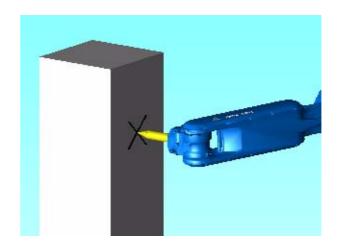
Call up the check program in which the check point is taught (the job for avoiding the position deviation) and operate the manipulator at low speed.



6.3.2 Checking of the Check Program

Check the deviation in to the check point. If the tool tip position is deviated, there is a deviation.

When the motor or encoder, etc. was replaced, move the corresponding axis only, when the stored memory was cleared or the manipulator was hit against a workpiece, move all axes, to the check point by joint motion.



- 6 Operations After Replacing Parts
- 6.3 Checking of the Check Program

6.3.3 Home Position Data Correction

When there is a deviation from the positions, correct the home position data with the following procedure.

- 1. Check the values of the following pulses.
 - If there is no deviation, the following two values coincide. Then, proceed to chapter 6.4 "Setting the Second Home Position (Check Point)" at page 6-13.
 - If there is a deviation, execute the following procedures to correct it.
 - (1) Command position pulse of the check point which was taught in advance

Displaying the Command Position Pulse

- I) Select {ROBOT} under the main menu.
- II) Select {COMMAND POSITION}.
- (2) Current position pulse where the manipulator (tool tip) was moved to the check point after performing the check program

Displaying the Current Position Pulse

- I) Select {ROBOT} under the main menu.
- II) Select {CURRENT POSITION}.
- 2. Calculate the difference between the command position pulse and the current position pulse.
 - The difference pulse = Command position pulse Current position pulse
- On the HOME POSITIONING window, add the difference pulse value to the absolute data of the axis whose motor or encoder, etc. was replaced.
- 4. Modify the home position data by following the procedures described in *chapter 6.1.2.3* "Changing the Absolute Data" at page 6-7 in chapter 6.1.2.
- 5. Confirm that the command position pulse and the current position pulse coincide.
 - The home position data have been corrected.
 - Proceed to chapter 6.4 "Setting the Second Home Position (Check Point)" at page 6-13.

6.4 Setting the Second Home Position (Check Point)



WARNING

• Be aware of safety hazards when performing the position confirmation of the second home position (check point).

Abnormality of the PG system may be a cause for alarm. The manipulator may operate in an unexpected manner, and there is a risk of damage to equipment or injury to personnel.

 Before operating the manipulator, check that the SERVO ON lamp goes out when the emergency stop buttons on the front door of DX200 and the programming pendant are pressed.

Injury or damage to machinery may result if the manipulator cannot be stopped in case of an emergency.

- Observe the following precautions when performing teaching operations within the P-point maximum envelope of the manipulator:
 - Be sure to use a lockout device to the safeguarding when going inside.
 Also, display the sign that the operation is being performed inside the safeguarding and make sure no one closes the safeguarding.
 - View the manipulator from the front whenever possible.
 - Always follow the predetermined operating procedure.
 - Keep in mind the emergency response measures against the manipulator's unexpected motion toward you.
 - Ensure that you have a safe place to retreat in case of emergency.

Improper or unintended manipulator operation may result in injury.

- Prior to performing the following operations, be sure that no one is in the P-point maximum envelope of the manipulator, and be sure that you are in a safe place when:
 - Turning ON the DX200 power.
 - Moving the manipulator with the programming pendant.
 - Running the system in the check mode.
 - Performing automatic operations.

Injury may result from contact with the manipulator if persons enter the P-point maximum envelope of the manipulator.

Always press the emergency stop button immediately if there are problems.

Emergency stop buttons are attached on the right of the front door of the DX200 and the programming pendant.

CAUTION

- Perform the following inspection procedures prior to teaching the manipulator. If problems are found, correct them immediately, and be sure that all other necessary tasks have been performed.
 - Check for problems in manipulator movement.
 - Check for damage to the insulation and sheathing of external wires.
 - Always return the programming pendant to its hook on the DX200 cabinet after use.

If the programming pendant is inadvertently left on the manipulator, a fixture, or on the floor, the manipulator or a tool could collide with it during manipulator movement, possibly causing injury or equipment damage.

- 6 Operations After Replacing Parts
- 6.4 Setting the Second Home Position (Check Point)

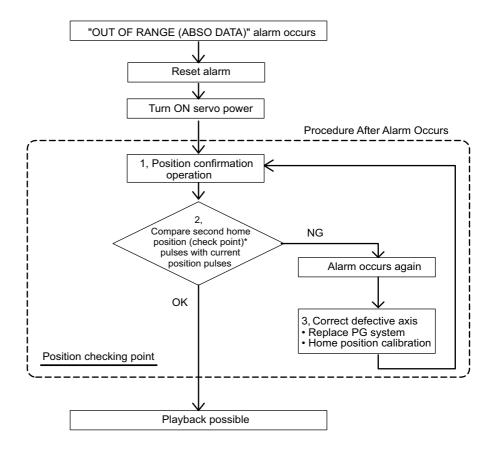
6.4.1 Purpose of Position Check Operation

If the absolute number of rotation detected at power supply ON does not match the data stored in the absolute encoder the last time the power supply was turned off, an alarm is issued when the controller power is turned ON.

There are two possible causes of this alarm:

- · Error in the PG system
- The manipulator was moved after the power supply was turned OFF.

If there is an error with the PG system, the manipulator may stall when playback is started. If the absolute data allowable range error alarm has occurred, playback and test runs will not function and the position must be checked.



1, Position Check

After the "OUT OF RANGE (ABSO DATA)" alarm occurs, move to the second home position using the axis keys and perform the position confirmation. Playback and test runs will not function unless "CONFIRM POSITION" is performed.

2, Pulse Difference Check

The pulse number at the second home position is compared with that at the current position. If the difference is within the allowable range, playback is enabled. If not, the alarm occurs again.

- The allowable range pulse is the number of pulses per rotation of the motor (PPR data).
- The initial value of the second home position is the home position (where all axes are at pulse 0). The second home position can be changed. For details, refer to chapter 6.4.2 "Procedure for the Second Home Position Setting (Check Point)" at page 6-17.

3, Alarm Occurrence

If the alarm occurs again, there may be an error in the PG system. Check the system. After adjusting the erroneous axis, calibrate the home position of the axis, then check the position again.

- Home position calibration of all the axes at the same time enables playback operations without having to check the position.
- Sometimes in a system with a manipulator that has no brake, it is possible to enable playback without position checking after the alarm occurs. However, as a rule, always perform "CONFIRM POSITION". Under the above special conditions, the manipulator moves as follows:



After starting, the manipulator moves at low speed (1/10 of the maximum speed) to the step indicated by the cursor.

If it is stopped and restarted during this motion, the low speed setting is retained until the step at cursor is reached. Regardless of cycle setting, the manipulator stops after the cursor step is reached.

Starting the manipulator again then moves it at the programmed speed and cycle of the job.

- 6 Operations After Replacing Parts
- 6.4 Setting the Second Home Position (Check Point)

6.4.2 Procedure for the Second Home Position Setting (Check Point)

Apart from the "home position" of the manipulator, the second home position can be set up as a check point for absolute data. Use the following steps to set the specified point.

If two or more manipulators or stations are controlled by one controller, the second home position must be set for each manipulator or station.

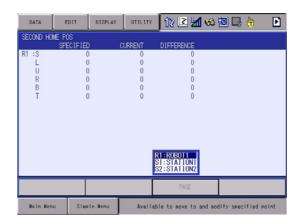
- 1. Select {ROBOT} under the main menu.
- 2. Select (SECOND HOME POS).
 - The SECOND HOME POS window appears.
 The message "Available to move to and modify specified point" is shown.



3. Press the page key [PAGE],

or select "PAGE" to display the selection window for the control group.

 The group axes by which the second home position is set is selected when there are two or more group axes.



- 4. Press the axis keys.
 - Move the manipulator to the new second home position.
- 5. Press [MODIFY] and [ENTER].
 - The second home position is changed.

- 6 Operations After Replacing Parts
- 6.4 Setting the Second Home Position (Check Point)

6.4.3 Procedure after the Alarm



WARNING

• Be aware of safety hazards when performing the position confirmation of the specified point.

Abnormality of the PG system may be cause for alarm. The manipulator may operate in an unexpected manner, and there is a risk of damage to equipment or injury to personnel.

If the "OUT OF RANGE (ABSO DATA)" alarm occurs, perform the followings

- · Reset the alarm
- Turn Servo power ON

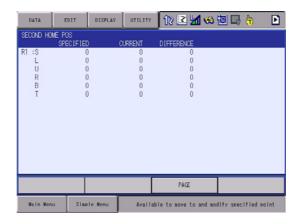
and confirm the second home position. After the confirmation, if the PG system is found to be the cause of the alarm, perform the necessary operation, such as replacing the PG, etc.

The robot current position data when turning main power supply OFF and ON can be confirmed in "POWER ON/OFF POS" window.



Refer to chapter 7.7 "Position Data When Power is Turned ON/OFF" at page 7-23 for details on the "POWER ON/OFF POS" window.

- 1. Select {ROBOT} under the main menu.
- 2. Select {SECOND HOME POS}.
 - The SECOND HOME POS window appears.



- 6 Operations After Replacing Parts
- 6.4 Setting the Second Home Position (Check Point)

3. Press the page key [PAGE].

or select "PAGE" to display the selection window for the control group.

 The group axes by which the second home position is set is selected when there are two or more group axes.



4. Press [FWD].

- TCP moves to the second home position. The robot moving speed is set as selected manual speed.
- 5. Select {DATA} under the menu.
- 6. Select (CONFIRM POSITION).
 - The message "Home position checked" is shown.
 Pulse data of the second home position and current pulse data are compared. If the compared error is in allowed range, playback operation can be done.

If the error is beyond the allowed range, the alarm occurs again.

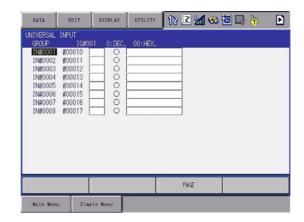
- 7 System Diagnosis
- 7.1 System Version

7 System Diagnosis

7.1 System Version

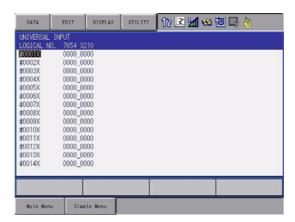
It is possible to check the system CPU version information as follows.

- 1. Select {SYSTEM INFO} under the main menu.
- 2. Select {VERSION}.
 - The VERSION window appears.



7.2 Manipulator Model

- 1. Select {ROBOT} under the main menu.
- 2. Select {MANIPULATOR TYPE}.
 - The ROBOT AXIS CONFIG window appears.



- 7 System Diagnosis
- 7.3 Input/Output Status

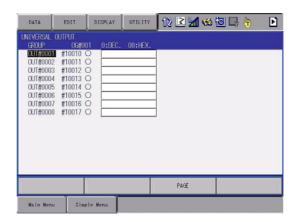
7.3 Input/Output Status

7.3.1 Universal Input

The status of input signal which is referred to by input instruction of a job can be confirmed.

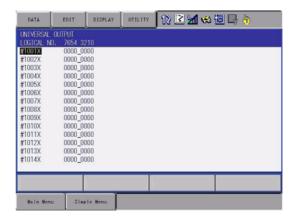
7.3.1.1 Universal Input Window

- 1. Select {IN/OUT} under the main menu.
- 2. Select {UNIVERSAL INPUT}.
 - The UNIVERSAL INPUT window appears.



7.3.1.2 Universal Input Simple Window

- 1. Select {IN/OUT} under the main menu.
- 2. Select {UNIVERSAL INPUT}.
 - The UNIVERSAL INPUT window appears.
- 3. Select {SIMPLE} from the pull-down menu of {DISPLAY}.
 - The UNIVERSAL INPUT simple window appears.



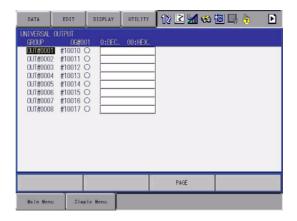
- 7 System Diagnosis
- 7.3 Input/Output Status

7.3.2 Universal Output

The status of the output signal set by the output instruction can be confirmed and modified.

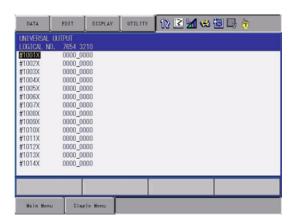
7.3.2.1 Universal Output Window

- 1. Select {IN/OUT} under the main menu.
- 2. Select {UNIVERSAL OUTPUT}.
 - The UNIVERSAL OUTPUT window appears.



7.3.2.2 Universal Output Simple Window

- 1. Select {IN/OUT} under the main menu.
- 2. Select {UNIVERSAL OUTPUT}.
 - The UNIVERSAL OUTPUT window appears.
- 3. Select {SIMPLE} from the pull-down menu of {DISPLAY}.
 - The UNIVERSAL OUTPUT simple window appears.

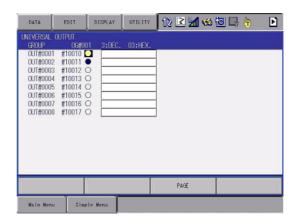


- 7 System Diagnosis
- 7.3 Input/Output Status

7.3.2.3 Modifying the Output Status

The status of universal output signal can be changed by the operation below.

- 1. Select the desired output signal number.
 - Select the status of the desired output signal, "O" or "●" in the UNIVERSAL OUTPUT window.
- 2. Press [INTER LOCK] + [SELECT].
 - The status is changed. (●: ON status, O: OFF status)





The status of universal output signal can be changed only when the mode is set to the teach mode.

- 7 System Diagnosis
- 7.3 Input/Output Status

7.3.3 Specific Input

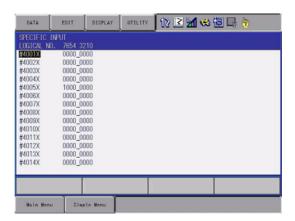
7.3.3.1 Specific Input Window

- 1. Select {IN/OUT} under the main menu.
- 2. Select {SPECIFIC INPUT}.
 - The SPECIFIED INPUT window appears.



7.3.3.2 Specific Input Simple Window

- 1. Select {IN/OUT} under the main menu.
- 2. Select {SPECIFIC INPUT}.
 - The SPECIFIED INPUT window appears.
- 3. Select {SIMPLE} from the pull-down menu of {DISPLAY}.
 - The SPECIFIED INPUT simple window appears.

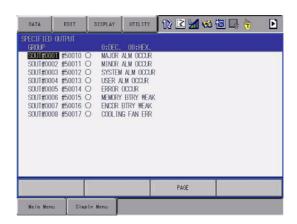


- 7 System Diagnosis
- 7.3 Input/Output Status

7.3.4 Specific Output

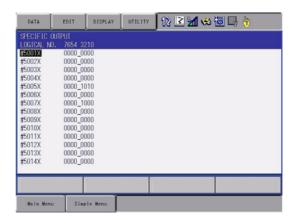
7.3.4.1 Specific Output Window

- 1. Select {IN/OUT} under the main menu.
- 2. Select {SPECIFIC OUTPUT}.
 - The SPECIFIED OUTPUT window appears.



7.3.4.2 Specific Output Simple Window

- 1. Select {IN/OUT} under the main menu.
- 2. Select {SPECIFIC OUTPUT}.
 - The SPECIFIED OUTPUT window appears.
- 3. Select {SIMPLE} from the pull-down menu of {DISPLAY}.
 - The SPECIFIED OUTPUT simple window appears.



- 7 System Diagnosis
- 7.3 Input/Output Status

7.3.5 RIN Input

7.3.5.1 RIN Input Window

- 1. Select {IN/OUT} under the main menu.
- 2. Select (RIN).
 - The RIN window appears.



- 7 System Diagnosis
- 7.3 Input/Output Status

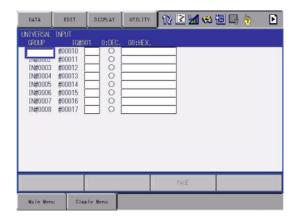
7.3.6 Signal Number Search

A search can be made for a signal number of a universal input, universal output, specific input, and specific output.



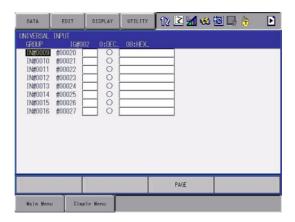
A search for the signal number can be made in the following two ways.

- Direct search on the UNIVERSAL/SPECIFIED INPUT/OUTPUT window
- · Search from the menu
- 7.3.6.1 Direct Search on the Universal/Specified Input/Output Window
 - 1. Move the cursor to a signal number in the UNIVERSAL/SPECIFIED INPUT/OUTPUT window, and press [SELECT].
 - Numeric values can now be entered.



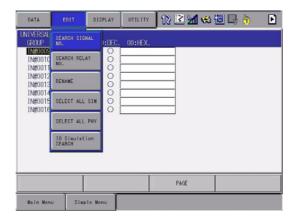
- 2. Enter the signal number to be searched.
 - Type the signal number in the number input line.

- 7 System Diagnosis
- 7.3 Input/Output Status
- 3. Press [ENTER] to start the search.
 - The page where the signal number exists appears.

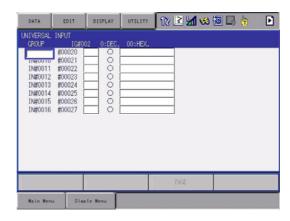


7.3.6.2 Search from the Menu

- 1. Select {EDIT} under the menu in the UNIVERSAL/SPECIFIED INPUT/ OUTPUT window.
 - The pull-down menu appears.



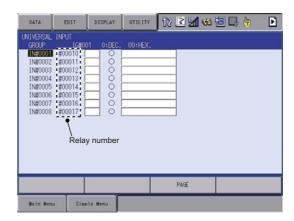
- 7 System Diagnosis
- 7.3 Input/Output Status
- 2. Select {SEARCH SIGNAL NO.}.
 - Numeric values can now be entered.



- 3. Enter the signal number to be searched.
 - Type the signal number in the number input line.
- 4. Press [ENTER] to start the search.
 - The page where the signal number exists appears.

7.3.7 Relay Number Search

A search can be made for a relay number of a universal input, universal output, specific input, and specific output.

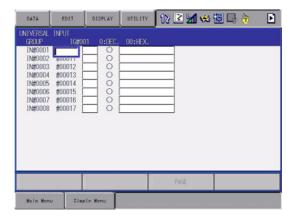


A search for the relay number can be made in the following two ways.

- Direct search on the UNIVERSAL/SPECIFIED INPUT/OUTPUT window
- · Search from the menu

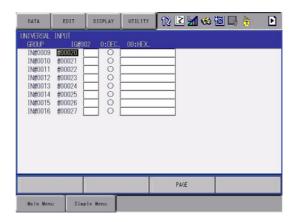
7.3.7.1 Direct Search on the Universal/Specified Input/Output Window

- 1. Move the cursor to a relay number in the UNIVERSAL/SPECIFIED INPUT/OUTPUT window, and press [SELECT].
 - Numeric values can now be entered.



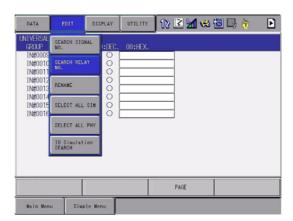
- 2. Enter the relay number to be searched.
 - Type the relay number in the number input line.

- 7 System Diagnosis
- 7.3 Input/Output Status
- 3. Press [ENTER] to start the search.
 - The page where the relay number exists appears.

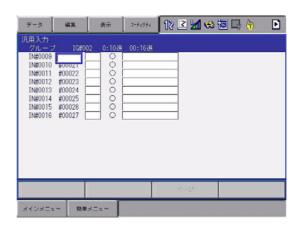


7.3.7.2 Search from the Menu

- 1. Select {EDIT} under the menu in the UNIVERSAL/SPECIFIED INPUT/ OUTPUT window.
 - The pull-down menu appears.



- 7 System Diagnosis
- 7.3 Input/Output Status
- 2. Select {SEARCH RELAY SIGNAL NO.}.
 - Numeric values can now be entered.

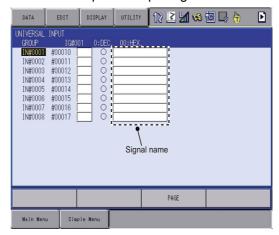


- 3. Enter the relay number to be searched.
 - Type the relay number in the number input line.
- 4. Press [ENTER] to start the search.
 - The page where the relay number exists appears.

- 7 System Diagnosis
- 7.3 Input/Output Status

7.3.8 Modification of the Signal Name

The name of the universal input or output signal can be modified.

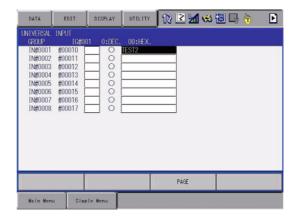


The name can be modified in the following two ways.

- Direct modification on the UNIVERSAL/SPECIFIED INPUT/OUTPUT window.
- · Modification from the menu

7.3.8.1 Direct Modification on the Universal/Specified Input/Output Window

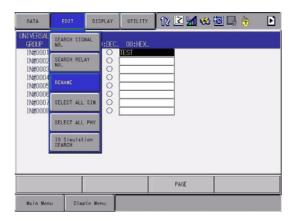
- 1. Move the cursor to the signal name to be modified in the UNIVERSAL/ SPECIFIED INPUT/OUTPUT window, and press [SELECT].
 - The window for character input appears.
- 2. Enter the signal name.
- 3. Press [ENTER].
 - New signal name is registered.



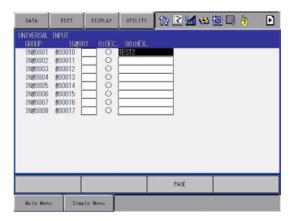
- 7 System Diagnosis
- 7.3 Input/Output Status

7.3.8.2 Modification from the Menu

- 1. Move the cursor to the signal name to be modified in the UNIVERSAL/ SPECIFIED INPUT/OUTPUT window.
- 2. Select {EDIT} under the menu.
 - The pull-down menu appears.



- 3. Select {RENAME}.
 - The window for character input appears.
- 4. Enter the signal name.
- 5. Press [ENTER].
 - New signal name is registered.



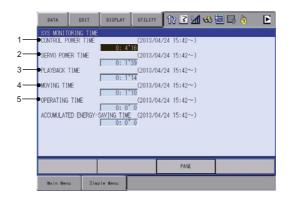
- 7 System Diagnosis
- 7.4 System Monitoring Time Display

7.4 System Monitoring Time Display

7.4.1 System Monitoring Time Display Window

The status of system operation, e.g. power ON time, can be checked.

- 1. Select (SYSTEM INFO).
- 2. Select {MONITORING TIME}.
 - The SYS MONITORING TIME window appears.



1, CONTROL POWER TIME

Displays the cumulative time that the main power supply has been ON.

2, SERVO POWER TIME

Displays the cumulative time that the servo power supply has been ON.

3, PLAYBACK TIME

Displays the cumulative time during which playback was executed.

4, MOVING TIME

Displays the cumulative time that the manipulator was in motion.

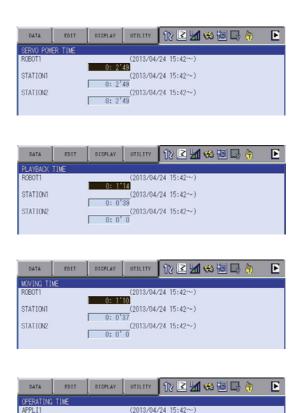
5, OPERATING TIME

Displays the cumulative time spent in operation. For example, if the manipulator is used for spot welding, it displays the amount of time spent in spot welding; if the manipulator is used for handling, it displays the time spent in handling.

- 7 System Diagnosis
- 7.4 System Monitoring Time Display

7.4.2 Individual Window of the System Monitoring Time Display

If the [PAGE] key is pressed, or "PAGE" is selected to display the selection window for the system monitoring time display, the servo power time, playback time, moving time, and each-application operating time by each control group are individually displayed.





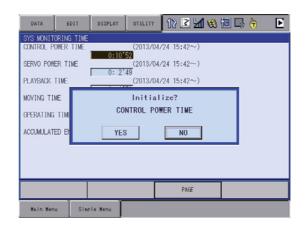
The total time of each control group here is not always the same as the time in the SYS MONITORING TIME window because these windows show time as seen from the individual control group.

- 7 System Diagnosis
- 7.4 System Monitoring Time Display

7.4.3 Clearing the System Monitoring Time Display

The moving time and operating time can be cleared and set back to 0 by following procedure. These operations can be performed in the SYS MONITORING TIME window, or in the individual windows.

- 1. Select the time to be cleared.
 - The confirmation dialog box appears.



2. Select "YES."

 The cumulative time value at the cursor line is reset to 0, and a new time measurement begins.



CONTROL POWER TIME, SERVO POWER TIME, PLAY-BACK TIME, MOVING TIME AND OPERATING TIME can be initialized when the parameter corresponding with each time is 1.

S2C415...CONTROL POWER TIME

S2C416...SERVO POWER TIME

S2C417...PLAYBACK TIME

S2C418...MOVING TIME

S2C419...OPERATING TIME

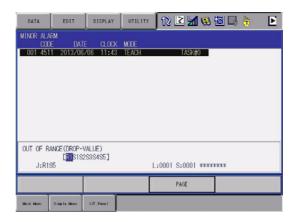
- 7 System Diagnosis
- 7.5 Alarm History

7.5 Alarm History

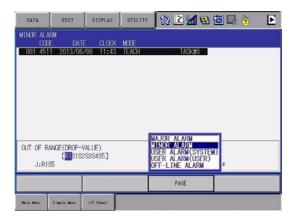
7.5.1 Alarm History Window

The alarm history can be confirmed in the alarm history window. There are five types of alarm history windows: the "MAJOR ALARM" window, the "MINOR ALARM" window, the "USER ALARM (SYSTEM)" window, the "USER ALARM (USER)" window, and the "OFF-LINE ALARM" window. Each window shows the alarm code and the date and time.

- 1. Select {SYSTEM INFO} under the main menu.
- 2. Select {ALARM HISTORY}.
 - The alarm history window appears.



- 3. Press the [PAGE] key to change the window, or select "PAGE" to display the selection window for the alarm windows.
 - Each time the [PAGE] key is pressed, the window changes "MAJOR ALARM"→"MINOR ALARM"→"USER ALARM(SYSTEM)"→"USER ALARM(USER)"→"OFF-LINE ALARM."

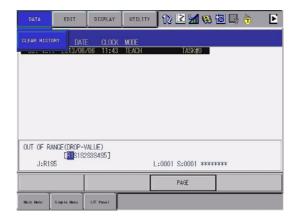


- 7 System Diagnosis
- 7.5 Alarm History

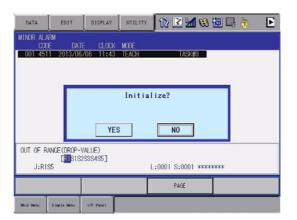
7.5.2 Clearing the Alarm History

The history of the minor alarms and the user alarms (system and user) can be cleared.

- 1. Display the alarm history window to be cleared.
- 2. Select {DATA} under the menu.
 - The pull-down menu "CLEAR HISTORY" appears.



- 3. Select {CLEAR HISTORY}.
 - The confirmation dialog box appears.



- 4. Select "YES."
 - The alarm history displayed is reset.

- 7 System Diagnosis
- 7.6 I/O Message History

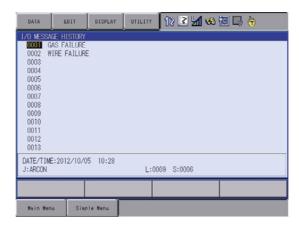
7.6 I/O Message History

7.6.1 I/O Message History Window

The I/O message history can be confirmed in the I/O MESSAGE HISTORY window.

The I/O MESSAGE HISTORY window shows the date and time, job name, line number, and step number of the I/O message that appeared on the window.

- 1. Select {SYSTEM INFO} under the main menu.
- 2. Select {I/O MSG HISTORY}
 - The I/O MESSAGE HISTORY window appears.



Press [SELECT], and numeric values can now be entered. Input the history number, and press [ENTER]. The search for the input history number begins, and the I/O message that appeared on the window is displayed.

7.6.1.1 Search

Use the following operation to search for the I/O message history.

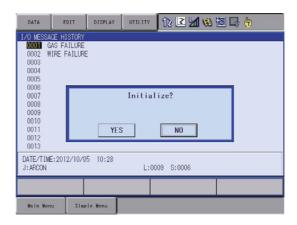
- 1. Select {EDIT} under the menu.
- 2. Select {SEARCH}.
 - The character input line appears.
- 3. Enter the history No.
- 4. Press [ENTER].
 - The search for the input history number begins, and the I/O message is displayed.

- 7 System Diagnosis
- 7.6 I/O Message History

7.6.2 Clearing the I/O Message History

Use the following operation to clear the I/O message history.

- 1. Select {DATA} under the menu.
- 2. Select {CLEAR HISTORY}.
 - The confirmation dialog box appears.



- 3. Select "YES."
 - The displayed I/O message history is cleared.



Initializing the history becomes valid when the security mode is higher than the management mode.

- 7 System Diagnosis
- 7.7 Position Data When Power is Turned ON/OFF

7.7 Position Data When Power is Turned ON/OFF

7.7.1 Power ON/OFF Position Window

The Power ON/OFF position window shows the position of the manipulator when power was turned OFF the last time, the current position of the manipulator when power was later turned ON, and the amount of difference between the two positions. When alarm 4107, "OUT OF RANGE (ABSO DATA)" occurs, the error value of the faulty axes can be verified in this window.

- 1. Select {ROBOT} under the main menu.
- 2. Select {POWER ON/OFF POS}.
 - The POWER ON/OFF POSITION window appears.

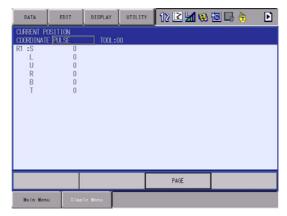


- 7 System Diagnosis
- 7.8 Current Position

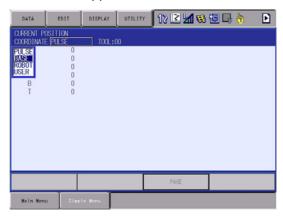
7.8 Current Position

7.8.1 Current Position Window

- 1. Select {ROBOT} under the main menu.
- 2. Select {CURRENT POSITION} under the sub menu.
 - The CURRENT POSITION window appears.



- 3. Select the types of coordinates to be displayed.
 - The pull-down menu appears.



- 4. Select the desired coordinate system.
 - The type of coordinates being displayed is changed.



7 System Diagnosis7.9 Servo Monitoring

7.9 Servo Monitoring

7.9.1 Servo Monitor Window

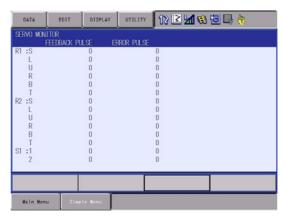
The servo monitor window shows the servo-related data of each axis.

Monitor Items	Description
FEEDBACK PULSE	Feedback position (actual position) of each axis "0" at the home position
ERROR PULSE	Difference between the command position and the feedback position of each axis
SPEED DEVIATION	Difference between the command speed and the feedback speed of each axis
SPEED INST	Speed reference of each axis
FEEDBACK SPEED	Feedback speed (actual speed) of each axis
TORQUE SPEC	Torque reference of each axis
MAX. TORQUE	Keeps the maximum value of the torque reference of each axis. "0" when the maximum torque is cleared or the control power supply is turned ON or OFF
ENCODER ROTATE SUM	Accumulated number of encoder rotation when the control power supply of each axis is turned ON
IN 1 TURN POSITION	Position after one rotation of the encoder when the control power supply of each axis is turned ON
MOTOR ABSOLUTE	Absolute value of the motor is calculated by adding the position in one rotation to the sum of the accumulated rotations when the control power supply of each axis is turned ON.
ENCODER TEMPERATURE	The temperature of the each axis (°C)

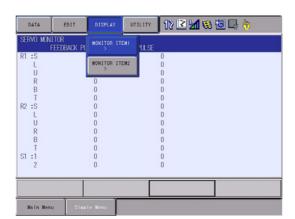
- 7 System Diagnosis
- 7.9 Servo Monitoring

7.9.1.1 Changing the Monitor Items

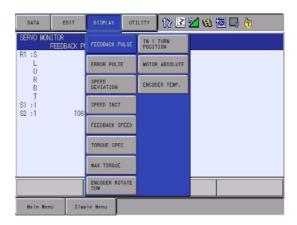
- 1. Set the security mode to the management mode.
- 2. Select {ROBOT} under the main menu.
- 3. Select {SERVO MONITOR}.
 - The SERVO MONITOR window appears.



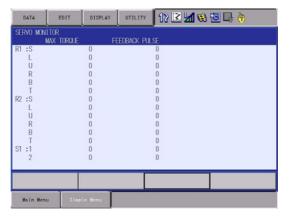
- 4. Select {DISPLAY} under the menu.
 - The pull-down menu appears.
 MONITOR ITEM 1 is the data on the left, and MONITOR ITEM 2 is the data on the right



- 7 System Diagnosis
- 7.9 Servo Monitoring
- 5. Select MONITOR ITEM 1 or 2, and view the sub-menu choices by the cursor key.
 - The sub-menu choices appear.



- 6. Select a menu.
 - The type of monitor-related information is changed.

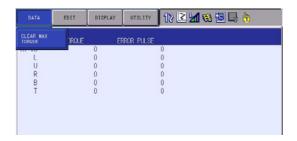


- 7 System Diagnosis
- 7.9 Servo Monitoring

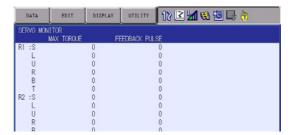
7.9.1.2 Clearing Maximum Torque Data

The data for the maximum torque can be cleared when the maximum torque-related information is being displayed.

- 1. Select {DATA} under the menu.
 - The clear max torque window appears



- 2. Select {MAX. TORQUE}.
 - The maximum torque data is cleared.



7.10 The State of the Robot Drop Tolerance Error

7.10.1 Check the Robot Drop Tolerance

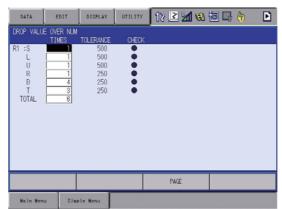
When a servo to the robot is turned off, the robot holds its position by the holding brake. However, in case of not holding its position, the DX200 checks if the drop value of the pulse is within the range when the servo is turned off from the turned on status.

Checking the drop value of the pulse is not performed when the robot is operating. The DX200 checks the value when turn on the servo again from the stopped state (it is a stopped state while waiting for the input during the timer in the playback).

7.10.2 Display of the Drop Value Number Window

Confirm the state of the times of the drop, tolerance and check on this window.

- 1. Select {ROBOT} in the main menu.
- 2. Select {DROP VALUE}.
 - The DROP VALUE OVER NUM window appears.

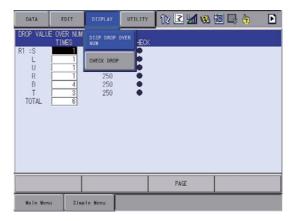


- 7 System Diagnosis
- 7.10 The State of the Robot Drop Tolerance Error

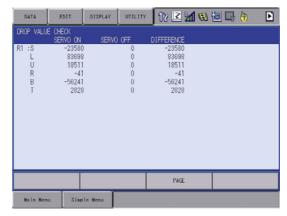
7.10.3 Display of the Drop Value Check Window

The position value of the manipulator where the servo was turned off (shown as SERVO ON on the screen), the position value of the manipulator where the servo is turned on (shown as SERVO OFF on the screen), and the difference value from these positions above are displayed in this window.

- 1. Select {DISPLAY} in the menu.
 - The pull-down menu appears.
 - Select {CHECK DROP} to display the DROP VALUE CHECK window.



- 2. Select {DROP VALUE CHECK}.
 - The DROP VALUE CHECK window appears.

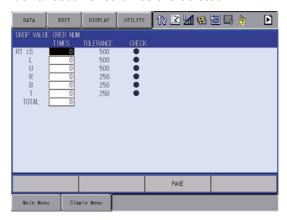


- 7 System Diagnosis
- 7.10 The State of the Robot Drop Tolerance Error

7.10.4 Clear the Times of the Drop Value Number

Clear the number by following operation.

- 1. Occurring times of the each axis
 - Move the cursor over the axis to be deleted, and press {SELECT}.
 The number of occurrence times is deleted.
- 2. Occurring times of the all axes
 - Move the cursor over the TOTAL, and press {SELECT}.
 The number of occurrence times are deleted.



8 Alarm

8.1 Outline of Alarm

8 Alarm

8.1 Outline of Alarm

When an alarm of level 0 to 3 (major alarm) occurs, the servo power supply is turned OFF. $\,$

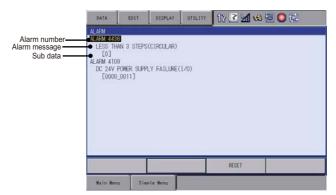
Table 8-1: Alarm Code Classification

Alarm Code	Alarm Level	Alarm Reset Method
0000	Level 0 (Major alarm) (Off line alarm: Initial diagnosis/ Hardware diagnosis alarm)	It is not possible to reset by "RESET" under the ALARM window or the system input signal (Alarm reset). Turn OFF the main power supply and correct the cause of the alarm. Then turn ON the main power supply again.
1000 to 3000	Level 1 to 3 (Major alarm)	It is not possible to reset by "RESET" under the ALARM window or the system input signal (Alarm reset). Turn OFF the main power supply and correct the cause of the alarm. Then turn ON the main power supply again.
4000 to 8000	Level 4 to 8 (Minor alarm)	After correcting the cause, it is possible to reset by "RESET" under the ALARM window or the system input signal (Alarm reset).
9000	Level 9 (Minor alarm) (I/O alarm)	After correcting the cause for which the system input signal for the system or user alarm request turns ON, it is possible to reset by "RESET" under the ALARM window or the system input signal (Alarm reset).

8.2 Alarm Display

8.2.1 Displaying and Releasing Alarm

If an alarm occurs during operation, the manipulator stops immediately and the ALARM window appears on the programming pendant indicating that the machine was stopped by an alarm.



If more than one alarm occurs simultaneously, all the alarms are displayed.

Scroll the viewing area with the cursor key to view the alarm that is not currently displayed on the viewing area.

The following operations are available in the alarm status: window change, mode change, alarm reset, and emergency stop. If the window is changed to another window during alarm occurrence, the ALARM window can be shown again by selecting {SYSTEM INFO} under the main menu and then selecting {ALARM}.

8.2.1.1 Releasing Alarms

Alarms are classified by minor and major alarms.

- Minor Alarms
 Select "RESET" on the ALARM window to release alarms.
 Or, turn ON the specific signal "ALARM RESET" when using an external input signal (specific input).
- Major Alarms
 If a severe alarm such as hardware failure occurs, servo power is automatically shut OFF and the manipulator stops. Turn OFF the main power supply, remove the cause of the alarm, and then turn ON the power supply again.

8 Alarm

8.2 Alarm Display

8.2.2 Special Alarm Display

(1) Sub Data

Sub data such as data for the axis where the alarm occurred, may also be displayed for some alarms.

· Decimal data

Without signs: 0 to 65535 With signs: -32768 to 32767

· Binary data

The alarm occurrence data becomes "1."

With 8 bits: 0000_0001

With 16 bits: 00000001_00000001

Axis data

The axis where the alarm occurred is highlighted. With robot axis: Robots 1 to 8 [SURBT]

With base axis: Base 1 to 8 [123] With station axis: Stations 1 to 24 [123]

· XYZ coordinate data

The coordinates where the alarm occurred are highlighted.

[XYZ] [XYZ**Tx** Ty Tz]

• 123 data

The data for which the alarm occurred is highlighted. [12 3]

· Control group data

The control group where the alarm occurred is highlighted.

[R1 R2 S1 S2 S3]

(2) Multiple SERVOPACK System

In a system using more than one SERVOPACK, the number of the SERVOPACK where the alarm occurred is also displayed. The S1 switch of the EAXA21 circuit board shows the SERVOPACK number.

SV#1: SERVOPACK 1 (EAXA21 circuit board S1 switch: 0)

SV#2: SERVOPACK 2 (EAXA21 circuit board S1 switch: 1)

SV#3: SERVOPACK 3 (EAXA21 circuit board S1 switch: 2)

SV#4: SERVOPACK 4 (EAXA21 circuit board S1 switch: 3)

8 Alarm

8.2 Alarm Display

(3) Independent Control Function (Optional)

In the independent control function (multi-task job), the tasks that were being done when the alarm occurred are also displayed.

TASK#0: Master-task job

TASK#1: Sub-task1 job (SUB1)

TASK#2: Sub-task2 job (SUB2)

TASK#3: Sub-task3 job (SUB3)

TASK#4: Sub-task4 job (SUB4)

TASK#5: Sub-task5 job (SUB5)

TASK#6: Sub-task6 job (SUB6)

TASK#7: Sub-task7 job (SUB7)

TASK#8: Sub-task8 job (SUB8)

TASK#9: Sub-task9 job (SUB9)

TASK#10: Sub-task10 job (SUB10)

TASK#11: Sub-task11 job (SUB11)

TASK#12: Sub-task12 job (SUB12)

TASK#13: Sub-task13 job (SUB13)

TASK#14: Sub-task14 job (SUB14)

TASK#15: Sub-task15 job (SUB15)

- 8 Alarm
- 8.3 Display of Alarm Details

8.3 Display of Alarm Details

Alarm details displaying function indicates the alarm contents breakdown on the alarm window.

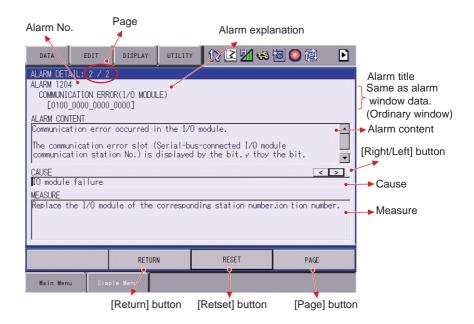
Press [Select] key after moving the cursor to the subject alarm on the alarm window to display its "content", "cause" and "measure".

Skip displaying the alarm window to directly display this breakdown window is possible by specifying the parameter when an alarm occurs.

8.3.1 Parameter

S2C406 Alarm Details Direct Display 0: Invalid / 1: Valid

8.3.2 Display of Alarm Detail Window



■ Page

Displays

the page number of the alarm whose detail window is currently displayed / the total alarm number occurred coincidentally.

Alarm No.

Displays the alarm number with decimal 4 digit.

Sub data

Displays the sub code number defined to each alarm.

Alarm content

Displays the content of the alarm.

8 Alarm

8.3 Display of Alarm Details

■ [Right/Left] button

This button appears when there can be several "cause"s and "measure"s to one alarm. Press this to right/left ward to alternate the "cause" and the "measure".

Cause

Displays the cause of an alarm.

■ Measure

Displays the recovery method from the alarming state.

■ [Reset] button

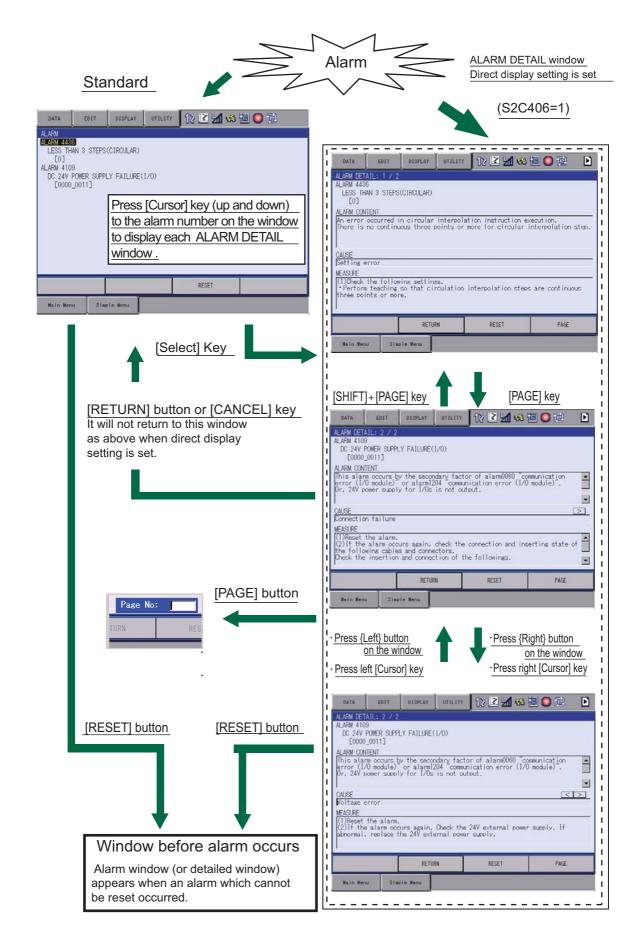
Press this button to reset the alarm.

■ [Page] button

Press this button to display the page number inputting area.

This area appears when several alarms occur at a time.

8.3.3 Transition of Alarm Detail Window



8.4 Alarm Message List



CAUTION

- Before handling the system control circuit board "JANCD-YIF**-*"
 for any remedies, consult YASKAWA representative. To handle the
 JANCD-YIF**-*, personnel must be appropriately skilled in
 maintenance mode operation.
- JANCD-YIF**-* backs up very important file data for the user program with a battery. Careless operation may delete registered data.

9.1 Error Message

9 Error

9.1 Error Message

Error warns the operator not to advance to the next operation caused by a wrong operation or the access method when using the programming pendant or an external equipment (computer, PLC, etc.).

When an error occurs, confirm the content of the error then release the error.

To release the error, perform either of the following operations:

- Press [CANCEL] on programming pendant.
- Input alarm/error reset signal (system input).



An error is different from an alarm because it does not stop the robot even if it occurred while the robot was operated (during playback).



When two or more errors occur, appears in the message display area. Activate the message display area and press [SELECT] to view the list of current errors.

9.1.1 System and General Operation

Error No.	Data	Error Message	Contents
10	-	Turn off servo power and perform corrective action	It cannot be operated while servo power supply is ON.
20	-	Depress TEACH	Out of specified operation mode
30	-	Illegal setting for number of variables	Parameter setting error
31	-	Illegal setting for number of variable- names	
32	-	Illegal setting for number of SUB task.	
40	-	Undefined robot position variables	Position variable cannot be used.
50	-	Depress MODIFY	
60	-	Undefined points (ORG, XX, XY)	Not registered user coordinates basic 3 points (ORG, XX, XY)
70	-	Program and current tool different	The tool number registered with teaching position data does not match the tool number selected at the programing pendant.
80	-	Same position in the 3 points	
90	-	Set robot exactly to taught position	
100	-	On overrun recovery status	
110	-	Turn ON servo power	
120	-	Set to PLAY mode	
130	-	No start using external signal	
140	-	No start using P.P.	
180	-	TEACH mode select signal ON	
190	-	Set variable number	
200	-	Defined group axis	
210	-	Undefined coordinated robots	
212	-	Cannot register at this combination	
230	-	While releasing soft limit	
240	-	Undefined robot	
270	-	Undefined gun condition file	
280	-	Lack of number of I/O points	
290	-	Cannot set same No.	
300	-	Undefined user frame	

9.1 Error Message

Error No.	Data	Error Message	Contents
310	-	Cannot register Master JOB	
320	-	Cannot operate CHECK-RUN	
330	-	Cannot operate MACHINE LOCK	
340	-	Cannot operate Master JOB	
341	-	Cannot be called up Master JOB	Master JOB cannot be called up while the manual brake is released.
350	-	Cannot initialize	
380	-	Position not checked	Second home position was not checked.
383	-	Select joint coordinate system and perform forward operation	
384	*	Coasting value setting of Ex-axis is not completed.	
	xxx		The coasting value unsetting group of the external axes.
390	-	Can specify servo off by safety relay	
410	-	Time could not be measured	Time could not be measured for TRT function.
420	-	Incorrect number of taught points	The number of the taught points for tool calibration is incorrect.
430	-	Register start reserved JOB	
460	-	Excess time for measuring	
500	-	Undefined robot calibration data	
510	-	Undefined axis	
520	-	Cannot select two coordinated combination	
530	-	Start reservation mode	
550	-	Start reserved JOB change prohibit is set	
560	-	Cannot teach position while soft limit released	
590	-	Register group axis combination	[SYNCHRO] was pressed for coordinated job which was not registered as group.
600	-	Out of setting data range	
610	-	Cannot use the user coordinate	
620	-	Select JOB (robot)	
650	-	Incorrect measured data	
660	-	Wrong data type of position variable	
680	-	Defined data	

9.1 Error Message

Error No.	Data	Error Message	Contents
	XXX		File no.
700	-	Wrong CMOS memory board type	
710	-	Canceled pelletizing shift value	
720	-	Defined name	
721	-	It is already registered for IN/OUT signal name.	
722	-	It is already registered for Variable name.	
723	-	It is already registered for Local variable name.	
724	-	The existing names cannot be overwritten	
740	-	This name cannot be defined	
741	-	This name cannot delete	The name cannot be deleted while alias function is valid.
760	-	Error in start condition set	
770	-	During robot or station operation	
800	-	The gun of designation is not connected	
801	-	The group axis of designation is not connection	
810	-	Servo power supply is limited	
820	-	Modification range over	
930	-	Undefined conveyor calibration data	
940	-	Dry spot input signal is ON	
950	-	Adjustment stroke is negative	
960	-	I/O axis mode requesting	
970	-	ERRSVCPU signal error	
971	-	ERRCPU signal error	
980	-	TIMER DATA TRANSMISSON ERROR	

9.1 Error Message

9.1.2 Editing

Error No.	Data	Error Message	Contents
1010	-	EDIT LOCK mode	
1011	-	EDIT LOCK is set for this line.	
1012	-	This line is defined as a comment.	
1020	-	Enter correct value	
1030	-	Unauthorized ID No.	
1050	-	Enter correct date	
1060	-	Enter correct clock	
1061	-	Enter correct time	The input time value is not correct.
1062	-	Values over 0 are not acceptable. Move to OPERATING TIME screen to set the values over 0.	The value other than "0" cannot be input.
1063	-	Enter 500000 or less value for 'HHHHHH'.	The value for the time is too big.
1070	-	Enter an ID number in 4-8 figures	
1080	-	Negative value can't be set	
1090	-	Enter correct value (START-END signal no)	
1130	-	Cannot register variable name in this job any more.	
1140	-	No input signals are set.	
1141	-	Overlapped input signals exist.	
1142	-	Overlapped output signals exist.	
1143	-	The signal which cannot be used is set up.	
1150	*	There are abnormal values in the file.	
	1		FILE NO.
	2		FILE SET STATUS
	3		FILE VALID CONDITION
	4		ALARM SET
	5		STOP METHOD
	6		Control GROUP
	7		Robot range limit: MONITOR TARGET
	8		Robot range limit: COORDINATE
	9		Robot range limit: SHAPE TYPE
	10		Range combination: INPUT FILE1, INPUT FILE2 and OUTPUT FILE
	11		Range combination: LOGIC
1151	*	Check the numeric value settings.	

9.1 Error Message

Error No.	Data	Error Message	Contents
	1		Axis range limit: the valid axis can be set by maximum < minimum.
	2		Robot range limit: set the "Z UPPER < Z LOWER" when the creating method is the prism.
	4		Robot range limit: set the same coordinate at the two vertices of the plane monitoring.
1152	*	The set values are out of range.	
	1		Axis range limit: maximum value and minimum value
	2		Axis speed monitor: speed
	3		Axis speed monitor: acceptable range
	4		Speed limit: limit speed (Robot)
	5		Speed limit: limit speed (Station)
	6		Speed limit: detection delay time
	7		Speed limit: acceptable range
	8		Robot range limit: used point number
	9		Robot range limit: X and Y coordinates
	10		Robot range limit: Z coordinate
	11		Approach warning buzzer: buzzer occurring distance
	12		Approach warning buzzer: universal output number
	13		Tool angle monitor: reference angle
	14		Tool angle monitor: limit angle
	16		Tool change monitor: tool number
	17		Tool change monitor: detection delay time
1160	*	The selected control group cannot be applied to functional safety.	
	2		The target group of the group change
	3		The target group of the gun change
	4		The group with the endless axis
	5		The group with the speed control axis
	6		The group with unsetting of the current position set up parameter
	7		The group with unsetting of the approximation model
	8		The group is not the monitoring target of the functional safety.
	9		The group with the functional safety monitoring invalid axis
1161	*	The axis that cannot be applied to functional safety exist.	

9.1 Error Message

Error No.	Data	Error Message	Contents
	10 to 17		The axis motion range limit and the axis speed monitor are valid, and the axes are endless axes (10+axis number).
	20 to 27		The axis motion range limit and the axis speed monitor are valid, and the axes are speed control axes (20+axis number).
	30 to 37		The axis motion range limit and the axis speed monitor are valid, and the axes are functional safety monitoring invalid axes (30+axis number).
1162	*	The axis to which coasting distance is not set cannot be set to VALID.	
	0 to 7		The coasting values are not set when the axis is valid (axis number).
1163	*	The group to which coasting distance is not set cannot be set to VALID.	
1170	*	Range cannot be configured with this setting.	
	1		Invalid robot range limit file number
	2		Inequality of the neighboring lines in the initial and terminal node
	3		There is the same point at the specified vertex.
	4		Lack of the setting vertex number
	5		The setting range lines are interfering each other.
	8		Inappropriate height setting
	9		Detected the non-convex range
	12		The exceeded number of the vertices
	13		Failure to create the data for the monitoring the outside of the range.
	14		Failure to create the plane surface range.
1180	-	Same file cannot be set.	
1181	-	The specified output file is under monitoring.	
1182	-	Monitor type differs between INPUT1 and INPUT2.	
1183	-	Coord type differs between INPUT1 and INPUT2.	
1184	-	The height in Z-direction differs between INPUT1 and INPUT2.	
1185	*	Range combination cannot be performed.	
	1		Inappropriate specified combination
	2		The exceeded number of the point of the intersection
	3		Failure to combine the range "AND"
	4		Failure to combine the range "OR"

- 9 Error
- 9.1 Error Message

Error No.	Data	Error Message	Contents
1186	-	The combination use of the files where plane monitoring is set is not permitted.	
1190	-	Cannot modify this parameter.	
1191	-	Axis range limit function is temporally disabled.	
1192	-	Robot range limit function is temporally disabled.	
1194	-	Tool range limit function is temporally disable.	
1195	*	The tool No. must be the same as the registered tool No.	
	xxx		The control group for the operation target.
1196	-	Select "Functional safety Board FLASH Reset".	
1600	-	A confirmation position is not set.	

9.1.3 Job Defined Data

Error No.	Data	Error Message	Contents
2010	-	Incorrect character	
2020	-	Name not entered	
2030	-	Undefined JOB name	
2040	-	Defined JOB name	
2050	-	Address not found	
2070	-	Set robot exactly to taught position	
2080	-	Press INSERT or MODIFY	
2090	-	Only modifying move instruction possible	
2100	-	JOB cannot be edited.	
2110	-	Over soft limit	
2111	-	Over soft limit. Adjust center position or pulse width.	
2120	-	Cannot insert/alter/delete with servo off	
2150	-	Inserting is not possible from this point	
2160	-	Cannot modify or delete this position	
2170	-	Press INSERT to record same step as previous step	
2180	-	Cannot insert data	
2210	-	Illegal data setting	
2220	-	Display edit instruction	
2240	-	Excessive instruction equation	
2250	-	Unmatched number of parentheses in equation	
2260	-	Wrong group axis selection	
2270	-	Cannot insert any more instruction in JOB	
2280	*	JOB memory is full	
	1		Lack of position file memories
	2		Lack of JOB registering memories
	3		Lack of instruction file memories
	4		Lack of memory pool
	5		Lack of pass condition file for multi layer

Error No.	Data	Error Message	Contents
	128		The instruction exceeded the maximum size
2290	-	Undefined master JOB	
2291	*	Undefined SUB Master JOB	
	1		Sub-master 1
	2		Sub-master 2
	3		Sub-master 3
	4		Sub-master 4
	5		Sub-master 5
	6		Sub-master 6
	7		Sub-master 7
	8		Sub-master 8
2292	-	Undefined MASTER START JOB	
2293	*	Undefined SUB START JOB	
	1		Sub-master 1
	2		Sub-master 2
	3		Sub-master 3
	4		Sub-master 4
	5		Sub-master 5
	6		Sub-master 6
	7		Sub-master 7
	8		Sub-master 8
2300	-	Cannot teach JOB without group-axis specification	
2310	*	Same label exists	
	XXX		Line no.
2340	-	Editing data not found	
2360	-	Cannot create editing area	
2370	-	Cannot cut/copy NOP and END instructions	
2371	-	EDIT LOCK/COMMENT functions cannot be applied to NOP and END.	
2372	-	This line cannot be defined as a comment.	
2390	-	Wrong group axis selection	
2400	-	Cannot move in cut & paste editing	
2430	-	Reverse data not found	
2440	-	Move C-and W-axis to basic position	Laser cutting

Error No.	Data	Error Message	Contents
2450	-	Relative JOB not permitted	
2470	-	Wrong JOB type	
2480	-	Wrong JOB coordinates setting	
2500	-	Cannot convert the JOB	
2501	-	Cannot convert positions as macro arguments	
2510	-	Cannot correct position in the JOB	
2520	-	Enter JOB name	
2530	-	Illegal step number	
2540	-	Enter step number	
2550	-	Duplicated step number	
2551	-	Duplicated line number	
2560	-	Cannot correct steps of position variables and REFP	
2570	-	The step does not contain speed	
2580	-	The step dose not contain PL/CONT	
2590	-	Soft limit range over	
2600	-	Cannot teach position in concurrent JOB	
2610	-	Wrong JOB kind	
2620	-	Cannot correct play speed in the JOB	
2630	-	Conveyor position not reset	
2640	-	Incorrect JOB name	
2650	-	Defined JOB name	
2670	-	Undefined target JOB	
2710	-	Relative job can't be shifted with pulse type	
2730	-	Cannot use robot macro JOB	
2740	-	Cannot use concurrent macro JOB	
2750	-	Cannot use JOB with group-axis specification	
2760	-	Cannot insert/modify/delete for group axis detachment	
2761	-	Cannot insert/modify/delete for axis detachment	

Error No.	Data	Error Message	Contents
2762	-	This operation is not allowed, for axes detachment has been set.	
2763	-	Cannot modify, for axes detachment has been set.	
2764	-	Cannot insert/modify/delete, for axes detachment has been set.	
2770	-	The job includes instructions that cannot execute reverse paste	
2780	-	Arithmetic error	
2790	-	Step exceeding operation range.	
2822	-	Cannot copy job during jog operation.	
2823	-	Cannot copy, cut and paste during jog operation.	
2870	-	Maximum pressure is not set.	The maximum pressure for the gun condition file is not defined.
2871	-	Pulse value and stroke value are not set correctly.	The gun condition file pulse and stroke are not properly defined.
2872	-	Torque value and pressure value are not set correctly.	The gun condition file torque and pressure are not properly defined.
2880	-	This group name cannot be changed.	
2881	-	Same group name exists.	
2882	-	It's not appropriate group name.	
2890	-	Max stroke range over.	
2891	-	1st Pulse value is not set correctly.	
2892	-	1st Stroke value is not set correctly.	
2893	-	1st Torque value is not set correctly.	
2894	-	1st Pressure value is not set correctly.	
2895	-	Max Pressurization power exceeding a set range.	
2896	*	Pulse value exceeding a set range.	
	xxx		Pulse number
2897	*	Stroke value exceeding a set range.	
	xxx		Stroke number
2898	*	Torque value exceeding a set range.	
	XXX		Torque number
2899	*	Pressure value exceeding a set range.	
	xxx		Pressure number

9.1.4 External Memory Equipment

Error No.	Data	Error Message	Contents
3010	-	Floppy disk drive cable not connected	
3020	-	Floppy disk not inserted into floppy disk drive	
3021	-	CompactFlash not inserted into CompactFlash slot(PP)	
3022	-	USB media not inserted	
3030	-	Floppy disk protection is ON	
3040	-	File not saved on the media	
3050	-	File saved on the media	
3060	-	Out of memory on the media	
3070	-	Number of files on the media	
3080	-	I/O error on the media	
3090	*	Transmission error with the media	
	1		Framing error
	2		Overrun error
	3		Parity error
	4		Data code error
	5		Data read error
	6		Data write error
	7		Data time out
	8		Serial I/O error
	9		Error other than described above
3100	-	Total checksum error	When the security is in management mode or safety mode, the CMOS.BIN file saved with other controllers can not be loaded.
			The memory size incorporated in the JZNCD-YIF01-□E board is different from the memory size of the JZNCD-YIF01-□E board used when saved the CMOS.BIN file.
			The CMOS.BIN file is broken or not be saved properly.
3110	-	Syntax error	
3120	*	HEX code error	
	1		Specification error of data decode
	2		Specification error of EOF record
	3		Record type error

Error No.	Data	Error Message	Contents
	4		Total check error of record
3130	-	Verify error	
3140	-	Wrong pseudo instruction	
3150	*	Concurrent I/O record error	
	1		Format error
	2		Ladder program is too long
	3		Exceed the range of the data
	4		Specification error of channel No.
	5		Specification error of relay No.
	6		Timer value error
	7		Specification error of timer No
3160	-	Cannot load illegal system data	
3170	*	Condition file data error	
	1		Format error
	2		Specified file No. is omitted
	3		Specified tool No. is omitted
	4		User file is not registered.
3190	*	Error in JOB data record	
	1		Record on the number of position data (NPOS) is wrong for the format.
	2		Record on the user coordinate No. (USER) is wrong for the format.
	3		Record on the tool No. (TOOL) is wrong for the format.
	4		Record on the position data section is wrong for the format.
	5		Record on the robot type of XYZ data (RCONF) is wrong for the format.
	6		Date (DATE) record is wrong for the format.
	7		Comment (COMM) record is wrong for the format.
	8		Record on the JOB attribute data (ATTR) is wrong for the format.
	9		Control group (GROUP) record is wrong for the format.
	10		Local variable (LVARS) record is wrong for the format.
	11		JOB argument (JARGS) record is wrong for the format.
	12		Record on the teaching coordinates for relative job (FRAME) is wrong for the format.
	13		Position data coordinates do not match relative job coordinates.

Error No.	Data	Error Message	Contents
3200	-	NOP or END instruction not found	
3210	-	Position No. storage area not found	
3220	*	Syntax error in instruction data	
	2		Interior control error
	3		
	4		Undefined instruction/tag Instruction/tag shortage
	5		Disuse instruction/tag
	6		Sub instruction
	7		No instruction
	8		Invalid instruction
	9		Invalid tag
	10		Invalid character
	11		Undefined intermediate code
	12		Intermediate code shortage
	13		Syntax stack overflow
	14		Syntax stack underflow
	15		Array type tag uncompleted Tag [ARRAY]
	16		Element type tag uncompleted Tag [ELEMENT]
	17		Macro JOB unregistered
	18		Input format error
	19		Data size over
	20		MIN value over
	21		MAX value over
	22		Operation expression error
	23		Job call argument setting error
	24		Macro job call argument setting error
	25		Position vector setting error
	26		System error
	27		Soft key designate error
	28		Numerical input buffer overflow
	29		Real type data precision error
	30		Element format error
	35		BOOL TYPE data error
	36		CHAR data error
	37		BYTETYPE, BINARY / HEXADECIMAL BYTE TYPE data error
	38		INTEGER TYPE, DECIMAL WORD TYPE data error
	39		BINARY/HEXADECIMAL WORD TYPE data error
	40		DOUBLE PRECISION INTEGER TYPE, DECIMAL DWORD TYPE data error

Error No.	Data	Error Message	Contents
	41		BINARY/HEXADECIMAL WORD TYPE data error
	42		REAL TYPE data error
	43		LADDER SPECIAL TYPE data error
	44		JCL text
	45		Invalid text
	46		LABEL NAME data error
	47		JOB NAME data error
	48		STRING data error
	49		COMMENT data error
	51		The job contains the instructions which exceeded the maximum size
	58		Invalid instruction/tag detection
3230	-	Syntax not matched	
3240	-	Undefined application	
3250	-	Cannot load this file	
3260	-	Excess input data	
3270	-	Cannot verify this file	
3280	-	Wrong welding condition (STANDARD/ENHANCED)	
3290	-	Serial port not defined	
3300	-	Serial port being used	
3310	-	Protocol being used	
3340	-	Illegal number of multi layer data	
3350	-	Not enough memory	
3360	-	Invalid folder	
3370	-	Incorrect folder name	
3450	-	Cannot load macro JOB at current security mode	Load in management mode.
3460	*	Cannot backup the media	
	1		Insufficient Compact Flash memory.
	2		Not accessible to Compact Flash.
3470	-	Database not found	
3480	-	Database access error	
3490	-	Same database exists	
3500	-	Check the media insertion	
3501	-	Check the media insertion	
3510	-	Cannot delete folder. Check attribute and inside file	
3520	-	Same folder exists	
3530	-	Cannot load at current security mode	

Error No.	Data	Error Message	Contents
3550	-	Under automatic backup operation. Operate after the backup is completed.	
3551	-	Under automatic backup operation. Operate "SORT FILE" after the backup is completed.	
3560	-	Failed in sorting backup file	
3570	-	Actuator data transmission error	
3580	-	Under backup file access. Operate after the access is completed.	
3581	-	Under backup file access. Operate "SORT FILE" after the access is completed.	
3600	-	system configuration data not matched	
3610	-	Excessive path	
3620	-	Excess folders	

9.1 Error Message

9.1.5 Concurrent I/O

Error No.	Data	Error Message	Contents
4010	*	Illegal relay No.	
	XXX		Line no.
4030	*	Illegal instruction	
	XXX		Line no.
4040	*	Relay/register No. duplicated in OUT/ GOUT or arithmetic instruction	Multiple outputs are instructed to the relay or register.
	XXX		Line no.
4050	*	The relay is not used	
	XXX		Line no.
4060	*	Excess STR-[-NOT] instructions	
	XXX		Line no.
4070	*	Excess AND [OR] STR instructions	
	XXX		Line no.
4080	*	Syntax error in CRT instructions	
	XXX		Line no.
4090	*	Enter STR [-NOT] at head of block	Need STR [-NOT]
	XXX		Line no.
4120	-	Concurrent I/O memory is full	Exceeds memory capacity (10000 steps)
4130	-	END instruction not found	END instruction not found
4140	-	Wrong ladder program	Position and number of PART instruction are wrong.
4150	*	Wrong use of GSTR, GOUT commands	GSTR and GOUT is not used together.
	XXX		Line no.
4190	-	Ladder program not found	
4220	-	Excess TMR/CNT or arithmetic instructions	More than 100 TMR, CNT or arithmetic instruction used
4230	-	Syntax error in TMR/CNT instructions	

9.1.6 Maintenance Mode

Error No.	Data	Error Message	Contents
8011	-	Choose the input of overrun	
8012	-	Equipment data file reading error	
8021	-	YIU Unit not found	
8030	-	Too many boards (DEVICENET(MASTER))	
8031	-	Too many boards (MSC01B)	
8033	-	Too many boards	
8034	-	Too many channels	
8035	-	Invalid configuration	
8040	-	Memory error (ControlNet output condition)	
8041	-	Memory error (UNIWIRE CONNECT DAT	
8042	-	Memory error (IP Network Configuration data)	
8050	-	Robot model is not registered	
8051	-	Select model	
8060	-	Cannot get UNIWIRE connection data	
8070	-	DHCP is already set to use for another item	
8071	-	DNS is already set to use for another item	
8072	-	DHCP is not set to use	
8073	-	DNS is not set to use	
8074	-	Device Information not found	
8080	-	Non support function	
8205	-	ENABLE Unit over	
8206	-	FLASH access error	
8210	-	IO module configuration is not modified	
8211	-	OPTION, BOARD or MODULE SETUP is not completed.	
8212	-	Cannot change setting (Function conflict	

Error No.	Data	Error Message	Contents
8213	-	Check EXTERNAL IO setup	
8216	-	Cannot change setting. Check the setting of control group.	Invalid the settings of the high speed spot welding or re-examine the control group configuration by referring to "Chapter 9.13. High Spot Welding Function" in "DX200 OPERATOR'S MANUAL FOR SPOT WELDING USING MOTOR GUN" (Manual No.RE-CSO-A046).
8217	-	Cannot change setting. Check the setting of spot high speed spec.	Invalid the settings of the high speed spot welding or re-examine the control group configuration by referring to "Chapter 9.123 High Spot Welding Function" in "DX200 OPERATOR'S MANUAL FOR SPOT WELDING USING MOTOR GUN" (Manual No.RE-CSO-A046).
8250	-	Setting group is duplicated that has been set in the axes detachment function.	
8251	-	Setting group is duplicated that has been set in the robot detachment function.	

- 9 Error
- 9.2 Particular Error Message

9.2 Particular Error Message

Apart from ordinary alarms or errors, some may display an error box message on the programming pendant. This message is displayed, when the system of the programming pendant becomes unauthorized.

9.2.1 Message

9.2.1.1 Fatal Error

This message is displayed when the fatal error occurs.

The message is "Fatal application Error" although the content of the message box varies depending on the occurrence status.

The programming pendant becomes either of following states

- 1. The window becomes inoperable.
- 2. The window disappears and blue background appears.

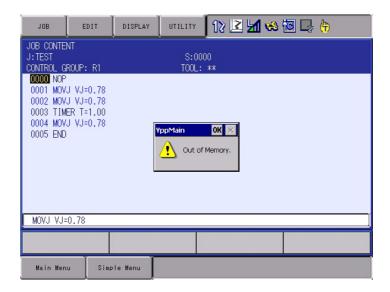


- 9 Error
- 9.2 Particular Error Message

9.2.1.2 Application Transaction Error

This message is displayed when the system or the software of the programming pendant becomes unauthorized due to unexpected transaction or failure in software transaction, etc.

The message in the message box varies depending on the occurrence status.



Followings are the messages possible to occur.

Message	Meaning
syntax error	There is an unauthorized part in internal processing description.
expression too complex (stack overflow)	Internal stack has overflowed.
function nesting depth exceeded	Nesting of internal processing is unauthorized.
bad radix	The cardinal number used is unauthorized.
divide by 0	Memory is running out.
out of memory	Memory is insufficient.
argument list does not match a function	The internal processing of the pendant program is unauthorized.
register is not available	Specified an unavailable system data.

The programming pendant becomes either of following states

- 1. The window becomes inoperable.
- 2. Press [OK] button to disappear the message box and it becomes operable.

9	Error
9.2	Particular Error Message

9.2.1.3 Other Errors

Other errors than mentioned above, some can trigger the message box. In these cases, the tile of the box can be "Ypp" or "YPPMain".

9.2 Particular Error Message

9.2.2 When the Error is Indicated

9.2.2.1 Fatal Error

Programming pendant becomes inoperable when this message appears. Please restart the system.

9.2.2.2 Application Transaction Error

It is possible to keep the operation after pressing [OK] button to disappear the message box. However, in this case, the system might be instable. Please restart the system if the window becomes inoperable.

9.2.2.3 Other Errors

Most of the cases when an error occurs, it is possible to keep the operation after pressing [OK] button to disappear the message box. Please restart the system if the window becomes inoperable.

Sometimes the message appears due to a specific operation although unstable state of the programming pendant is the main cause of the error in most cases.

If the pendant becomes inoperable after the message due to a specific operation invariably, please report the displayed message to your Yaskawa representative.

- 10 Job Data Simplified Restoration Function
- 10.1 Outline

10 Job Data Simplified Restoration Function

10.1 Outline

There are some cases where the data in file system becomes inconsistent status if the controller power is turned off during edit operation.

If this data inconsistent status is neglected, the following data errors (inconsistent status) might occur in rare cases.

This Job data simplified restoration function checks the inconsistent status of the file and restore the data error status of the file system.

[Inconsistent status]

inconsistent chain status between position data and instruction file

- (1) Overlapped chain with same position data
- (2) Unregistered position data is chained with instruction file
- (3) Registered position data is not chained

- 10 Job Data Simplified Restoration Function
- 10.2 Job Data Restoration

10.2 Job Data Restoration

10.2.1 How to Check Job Data Inconsistent Status

- * "FILE" in WRONG DATA LOG screen corresponds to the following data.
 - (1) Job data
 - (2) User coordinate data (UFRAME)
 - (3) Robot calibration file (RBCAL)
 - (4) Edit buffer (-CUTBUF)



- Execute Job data restoration in management mode.
- Operation mode and editing mode permit monitoring only.
- 1. Detect data error
 - ALARM screen appears.



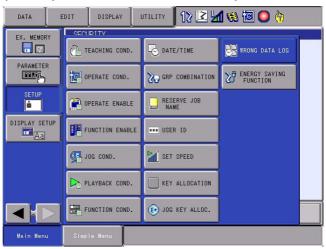
2. Press {SYSTEM INFO} under main menu and select {SECURITY}



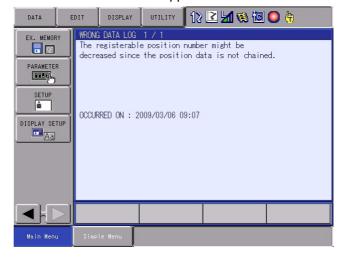
- 10 Job Data Simplified Restoration Function
- 10.2 Job Data Restoration
- 3. Select "MANAGEMENT MODE"



- Input password to switch the mode to Management mode.
- 4. Press {SETUP} under main menu and select {WRONG DATA LOG}



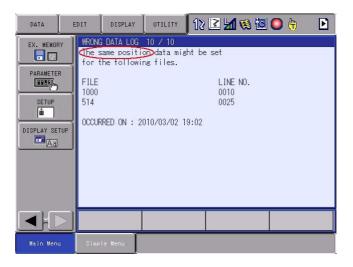
- WRONG DATA LOG screen appears.



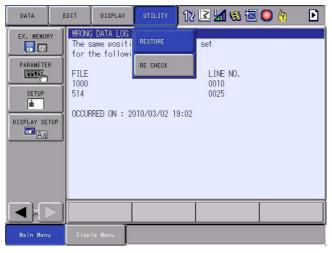
- 5. Check the details of data inconsistency
 - Check the error contents, then execute restoration following chapter 10.2.2 "Job Data Restoration Method" at page 10-4.

10.2.2 Job Data Restoration Method

10.2.2.1 In Case Same Position data is Chained

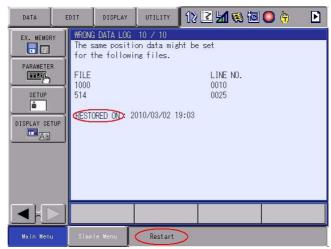


- 1. Press {UTILITY} to select {RESTORE}
 - Press {RESTORE} to reset the overlapped position data chain.



10.2 Job Data Restoration

The indication changes from "OCCURRED ON" to "RESTORED ON".

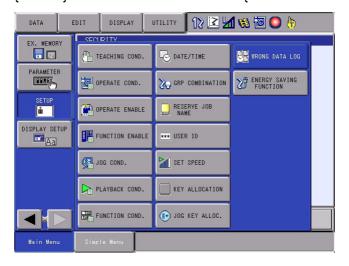


* If fail in the restoration

 If the indication doesn't change from "OCCURRED ON" to "RESTORED ON", refer to chapter 10.3 "If Fail in Simplified Restoration" at page 10-12.

2. Start up the system again

- After the restoration, the system must be started up again.
 Turn the control power OFF/ON and then execute the following checking operation.
- 3. Press {SETUP} under main menu and select {WRONG DATA LOG}



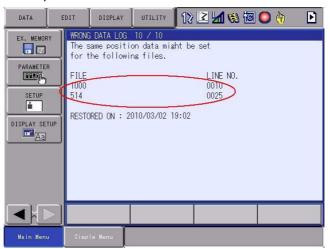
10.2 Job Data Restoration

- WRONG DATA LOG screen appears.

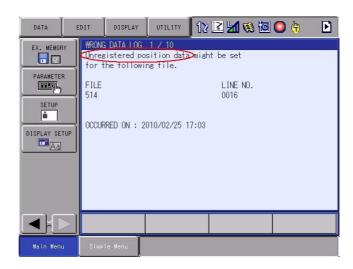


4. Check the position

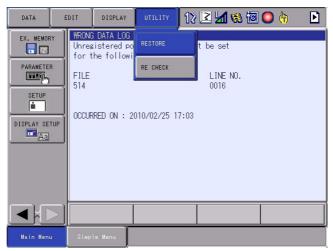
- Check the position of two lines indicated in the screen.



10.2.2.2 InCase Not-Registered Position data is Chained

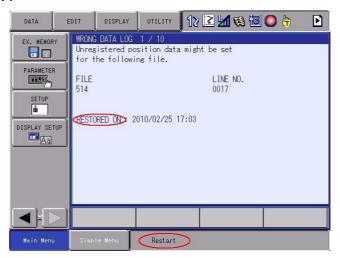


- 1. Press {UTILITY} and select {RESTORE}
 - Press {RESTORE} button to register the position of the file indicated in WRONG DATA LOG screen tentatively, which enables to register position again.



10.2 Job Data Restoration

 The indication changes from "OCCURRED ON" to "REGISTERED ON".



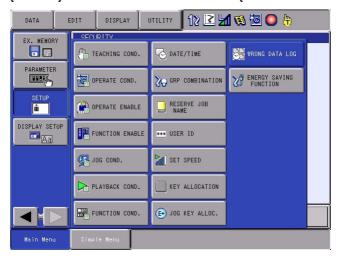
* If fail in the restoration

 If the indication doesn't change from "OCCURRED ON" to "RESTORED ON", refer to chapter 10.3 "If Fail in Simplified Restoration" at page 10-12.

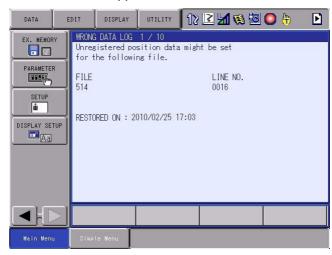
2. Start up the system again

After the restoration, the system must be started up again.
 Turn the control power OFF/ON and then execute the following checking operation.

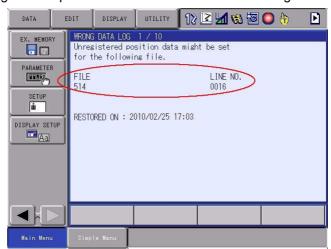




- 10 Job Data Simplified Restoration Function
- 10.2 Job Data Restoration
 - WRONG DATA LOG appears.



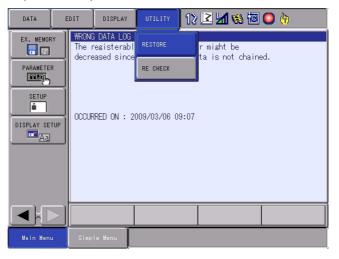
- 4. Register teaching position again
 - Register the position data of the file in the screen again.



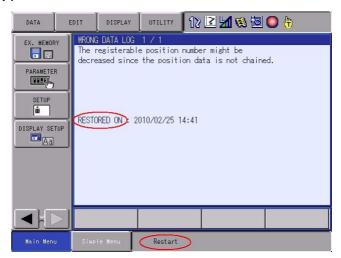
10.2.2.3 In Case Not-Chained Position Data Exists



- 1. Press {UTILITY} and select {RESTORE}
 - Press {RESTORE} to correct the chain.



- 10 Job Data Simplified Restoration Function
- 10.2 Job Data Restoration
 - The indication changes from "OCCURRED ON" to "REGISTERED ON".



* If fail in the restoration

 If the indication doesn't change from "OCCURRED ON" to "RESTORED ON", refer to chapter 10.3 "If Fail in Simplified Restoration" at page 10-12.

2. Start up the system again

After the restoration, the system must be started up again.
 Turn the control power OFF/ON.

- 10 Job Data Simplified Restoration Function
- 10.3 If Fail in Simplified Restoration

10.3 If Fail in Simplified Restoration

Execute the following procedure if failing in the restoration by Job data simplified restoration method.

10.3.1 Rechecking Job Data

- 1. Select {RE CHECK} under {UTILITY}
 - Press {RE CHECK}



- 2. Restoration is completed.
 - * Proceed to the next operation chapter 10.3.2 "If Data Inconsistency Alarm Occurs Again" at page 10-13 if the alarm occurs again after this operation.

- 10 Job Data Simplified Restoration Function
- 10.3 If Fail in Simplified Restoration

10.3.2 If Data Inconsistency Alarm Occurs Again

Execute the following procedure if the data inconsistency alarm occurs again even after rechecking Job data following *chapter 10.3 "If Fail in Simplified Restoration"* at page 10-12.

- Re-register the position data after deleting the data of the file indicated in WRONG DATA LOG screen.
 Refer to chapter 10.2.2 "Job Data Restoration Method" at page 10-4 for checking operation after registration. (See the operations after procedure 2 "Start up the system again".)
- 2. Execute the following procedures if the position data cannot be deleted or re-registered with the operation indicated above.
 - (1) Save Job data and User Coordinate file and Robot Calibration. *Delete the position data of the file indicated in WRONG DATA LOG screen in case the following error occurs while saving.

ERROR: 0040 Undefined robot position variable

- * Refer to "7.3.0.2 Saving Data" in "DX200 OPERATOR'S MANUAL" for details.
- (2) Initialize Job area in maintenance mode.*Refer to "8.18.1 Initializing Job File" in "DX200 INSTRUCTIONS" for details.
- (3) Load the data saved in the procedure 1.* Refer to "7.3.0.3. Loading Data" in "DX200 OPERATOR'S MAN-UAL" for details.
- (4) Check the motion of the manipulator after loading.

 * Refer to the procedure from procedure "2. Start up the system again." in *chapter 10.2 "Job Data Restoration" at page 10-2.*

10.4 Related Parameters

10.4 Related Parameters

Parameter	Meaning	Setting value	Initial
			value
S2C303	Data inconsistency check specification	0:Valid 1:nvalid	0
S2C304	Inconsistency detection method in play mode	0:Warning 1:Stop with alarm	0

10.5 Specific Output Signal

The following signal outputs the status of data inconsistency occurrence.

Output signal	Meaning
50696	Indicate the data inconsistency occurrence

11 LED Indicator on Circuit Board

11

Before the check of a LED indications

In principle, the door must not be opened to prevent electric shock while power is on. However, it is required to open the door to check the LED display for maintenance. Special attention needed to open the door.



WARNING

- To perform this operation, it is required to open the door of the control box while power is on.
- A heavy current (AC200V) flows inside the control box. Do not touch the internal unit.

Failure to observe this warning may result in electric shock.

 Close the door as soon as the maintenance work such as LED check is completed.

Failure to observe this warning may result in electric shock.

<How to Open and Close the Door>



< Excerpt from information materials of manufacturers >

Door Lock Mechanism

The door of the control box can be opened at the OFF position. The door of the control box cannot be opened at the ON or trip position because it is locked at these positions.

However, pressing the release section in the arrow direction with a tool (3mm wide, 1.8mm thick) makes it possible to open the door

locked at the ON or trip position.





WARNING

 Close the door as soon as the maintenance work such as LED check is completed.

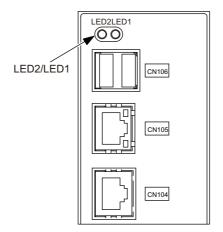
Failure to observe this warning may result in electric shock.

- 11 LED Indicator on Circuit Board
- 11.1 LED Indicator on YCP 21 Circuit Board

11.1 LED Indicator on YCP 21 Circuit Board

The LED indicators: LED1/LED2 on the YCP21 circuit board show the statuses as in the following table.

LED0	KED1	Status
OFF	OFF	The power is not turned ON.
ON	OFF	Searches the connecting device.
OFF	BLINK	Before the BIOS starts Searches the booting device
ON	BLINK	Booting device ready
ON	ON	The BIOS initialization has been completed./OS boot starts.

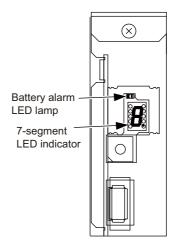


- 11 LED Indicator on Circuit Board
- 11.2 LED Indicator on Robot I/F Circuit Board

11.2 LED Indicator on Robot I/F Circuit Board

The 7-segment LED indicator and battery alarm LED lamp are located on the robot I/F circuit board (JANCD-YIF01-□E).

See *chapter 11.3 "7 SEG-LED Indicator"* for details displayed by the 7-segment LED indicator. The battery alarm LED lamp is lit when the battery runs out. See *chapter 5.1.1 "Replacing Parts of the CPU Unit" at page 5-3.*



11.3 7 SEG-LED Indicator

The following tables show the operating statues for JANCD-YIF01-□E/JANCD-YCP02. The operating statuses are indicated by 7 SEG-LED.

Table 11-1: [Normal Indication]

Status	DX200	
	YIF01	YCP02
Right after applying the power	All 7-SEG indicators light up. ('8' + '.' light up.)	
During the start-up process	Counts up from 'O' toward 'd'.	ard 'd'.
After starting up normally	'd' + '.' blink every one second.	

Table 11-2: [Error Indication]

Status	DX200		
	YIF01	YCP02	
Normal alarm occurrence	'd + '.' blink every one second.	'd', + '.' blink every one second.	
Fatal alarm occurrence	The error cause and the a has occurred are indicate (See the indication spec	d by 7 SEG-LED.	

Indication Spec 1	$E.g.: [-] \rightarrow [0] \rightarrow [2] \rightarrow [0] \rightarrow [0] \rightarrow$: Error cause
	$[,] \rightarrow [-] \rightarrow [0] \rightarrow [0] \rightarrow [0] \rightarrow [0] \rightarrow [F] \rightarrow [F]$ $\rightarrow [0] \rightarrow [4]$ is repeated	: Occurrence address

11.3 7 SEG-LED Indicator

11.3.0.1 7 SEG-LED Indicator Status (1-digit indication) of Each Unit at Error Occurrence

YIF01	
All Lit	The power has been turned ON.
0	The booting program has started.
1	The system program has started. (Starts up initialization of various kinds.)
2	Starts verifying the existence of other circuit boards. (Verifies the start-up of the booting program.)
3	Starts the system program transmission.
4	Sends the request of the system program start-up.
5	Starts verifying the existence of other circuit boards. (Verifies the start-up of the system program.)
6	Acquires hardware information, etc. of other circuit boards. (Verifies the IO board status, servo IF, and so on.)
7	Starts the CMOS data transmission.
8	Sends the pre-online request.
9	Waits for CERF communication synchronization.
A	
В	Sends the start-up request of on-line system.
С	The on-line system has started. (Starts up the initialization task.)
D	Processes the DX200 setup completion. (Servo ON enabled)
E	Alarm occurs at the DX200 setup.
F	The maintenance system is starting up.
Р	Communications interrupted between NCP01 and the programming pendant.
U	Updating system software through network.

YCP02	
All Lit	The power has been turned ON.
0	The booting program has started. (ROM/RAM/FP register check)
1	Starts the booting system. (Completes initialization of various kinds.)
2	Completes the preparation for receiving the system program.
3	The system program has been received. (Waits for the request of system change.)
4	The system program has started. (Starts up hardware initialization of various kinds.)
5	Starts the system. (Completes initialization of various kinds.)
6	Starts the CMOS data transmission.
7	Receives the CMOS mapping. (Waits for pre-online)
8	Starts the optional system. (Starts the process of various initialization.)
9	
Α	
В	
С	
D	Completes the DX200 setup process.

11.3.0.2 7 SEG-LED Indicator Status (4 digit-indication) of Each Unit at Error Occurrence

0000 Arithmetic error 0001 Debug 0002 NMI 0003 Breakpoint 0004 Overflow 0005 Out of BOUND 0006 Invalid operation code 0007 Device disabled 0008 Double fault 0009 Coprocessor segment overrun 000A Invalid TSS 000B Segment absence 000C Stack segment fault 000D General protection exception 000E Page fault 000F 0010 0011 Alignment check 0012 Machine check 0013 SIMD floating point exception 0014 O014	
0002 NMI 0003 Breakpoint 0004 Overflow 0005 Out of BOUND 0006 Invalid operation code 0007 Device disabled 0008 Double fault 0009 Coprocessor segment overrun 000A Invalid TSS 000B Segment absence 000C Stack segment fault 000D General protection exception 000E Page fault 000F 0010 0011 Alignment check 0012 Machine check 0013 SIMD floating point exception	
0003 Breakpoint 0004 Overflow 0005 Out of BOUND 0006 Invalid operation code 0007 Device disabled 0008 Double fault 0009 Coprocessor segment overrun 000A Invalid TSS 000B Segment absence 000C Stack segment fault 000D General protection exception 000E Page fault 000F 0010 Floating point error 0011 Alignment check 0012 Machine check 0013 SIMD floating point exception	
0004 Overflow 0005 Out of BOUND 0006 Invalid operation code 0007 Device disabled 0008 Double fault 0009 Coprocessor segment overrun 000A Invalid TSS 000B Segment absence 000C Stack segment fault 000D General protection exception 000E Page fault 000F 0010 Floating point error 0011 Alignment check 0012 Machine check 0013 SIMD floating point exception	
Out of BOUND Out o	
0006 Invalid operation code 0007 Device disabled 0008 Double fault 0009 Coprocessor segment overrun 000A Invalid TSS 000B Segment absence 000C Stack segment fault 000D General protection exception 000E Page fault 000F 0010 Floating point error 0011 Alignment check 0012 Machine check 0013 SIMD floating point exception	
0007 Device disabled 0008 Double fault 0009 Coprocessor segment overrun 000A Invalid TSS 000B Segment absence 000C Stack segment fault 000D General protection exception 000E Page fault 000F 0010 0011 Alignment check 0012 Machine check 0013 SIMD floating point exception 0014	
0008 Double fault 0009 Coprocessor segment overrun 000A Invalid TSS 000B Segment absence 000C Stack segment fault 000D General protection exception 000E Page fault 000F 0010 Floating point error 0011 Alignment check 0012 Machine check 0013 SIMD floating point exception 0014	
0009 Coprocessor segment overrun 000A Invalid TSS 000B Segment absence 000C Stack segment fault 000D General protection exception 000E Page fault 000F 0010 0011 Alignment check 0012 Machine check 0013 SIMD floating point exception 0014	
000A Invalid TSS 000B Segment absence 000C Stack segment fault 000D General protection exception 000E Page fault 000F 0010 Floating point error 0011 Alignment check 0012 Machine check 0013 SIMD floating point exception	
000B Segment absence 000C Stack segment fault 000D General protection exception 000E Page fault 000F 0010 Floating point error 0011 Alignment check 0012 Machine check 0013 SIMD floating point exception 0014	
000C Stack segment fault 000D General protection exception 000E Page fault 000F 0010 Floating point error 0011 Alignment check 0012 Machine check 0013 SIMD floating point exception 0014	
000D General protection exception 000E Page fault 000F 0010 Floating point error 0011 Alignment check 0012 Machine check 0013 SIMD floating point exception 0014	
000E Page fault 000F 0010 Floating point error 0011 Alignment check 0012 Machine check 0013 SIMD floating point exception 0014	
000F 0010 Floating point error 0011 Alignment check 0012 Machine check 0013 SIMD floating point exception 0014	
0010 Floating point error 0011 Alignment check 0012 Machine check 0013 SIMD floating point exception 0014	
0011 Alignment check 0012 Machine check 0013 SIMD floating point exception 0014	
0012 Machine check 0013 SIMD floating point exception 0014	
0013 SIMD floating point exception 0014	
0014	
0045	
0015	
0016	
0017	
0018	
0019	
001A	
001B	
001C	
001D	
001E	
001F	
0900 WDT error	

11.3 7 SEG-LED Indicator

YCP02	
0010	ROM error in the boot section
0020	RAM error
0030	FP register error
0040	On-line communications command error
0100	Reset exception
0200	Machine check exception
0210	WDT error
0300	Data access error
0400	Instruction access exception
0500	
0600	Alignment exception
0700	Program exception
0800	Unavailable floating point exception
0900	
0A00	Undefined exception
0B00	Undefined exception
0C00	System call exception
0D00	Trace exception
0E00	Undefined exception
0F00	Undefined exception
1000	Instruction conversion error exception
1100	Data load conversion error exception
1200	Data store conversion error exception
1300	Instruction breakpoint exception
1400	System management interruption
1500	Undefined exception
1600	Undefined exception
1700	Undefined exception
1800	Undefined exception
1900	Undefined exception
1A00	Undefined exception
1B00	Undefined exception
1C00	Undefined exception
1D00	Undefined exception
1E00	Undefined exception
1F00	Undefined exception
2000	Undefined exception
2100	Undefined exception
2200	Undefined exception
2300	Undefined exception
2400	Undefined exception
2500	Undefined exception
2600	Undefined exception
2700	Undefined exception
2800	Undefined exception
2900	Undefined exception
2A00	Undefined exception

11 LED Indicator on Circuit Board

11.3 7 SEG-LED Indicator

YCP02	
2B00	Undefined exception
2C00	Undefined exception
2D00	Undefined exception
2E00	Undefined exception
2F00	Undefined exception
3010	Receiving data size error
3020	Receiving data sum error
3030	Receiving data write address error
3040	All receiving data sum error

- 11 LED Indicator on Circuit Board
- 11.4 LED Indicator

11.4 LED Indicator

The following tables show the operating statues for SRDA-EAXA21/ JANCD-YSF21.

Table 11-3: [Normal indication]

Status	DX200						
	EAXA21	YSF21					
Right after applying the power	All indicators light up.	All indicators light up.					
During the start-up process	{Normal status}: D22,D23,D40 (green) light up *Lighting the LED changes according to the activation process. {Detected error}: D48 (red) blink	{Normal status} : D2, D7 (green) blink *Lighting the LED changes according to the activation process. {Detected error} : D5, D10 (red) blink					
After starting up normally	{Normal status} : D22 (green) blink	{Normal status} : D2,D7 (green) blink					
	{Detected an alarm} : D48 (red) blink	{Detected minor alarm} : D5, D10 (red) blink {Detected major alarm} : D5, D10 (red) light up					

- 12 Program Upload Function
- 12.1 About Program Upload Function

12 Program Upload Function

12.1 About Program Upload Function

The system program of the DX200 can be saved into the compact flash inserted to the programming pendant using this program upload function.

This enables restoring the system easily and quickly, even in the case of a failure in the compact flash of the main CPU board (YCP21), by writing the system program and the batch data of the DX200 saved previously.

12.1.1 When the System Program is Required

The system program has been stored in the compact flash removable from YCP21 in the DX200. This enables using the compact flash without interruption even if YCP21 is replaced for its failure.

However, in the case of a compact flash failure, the existing system program needs to be written into the new one. This function enables saving the existing system program to write it into the new one from the DX200 for the case like this.

12.1.2 Applicable Version



Prepare two compact flashes for the restoration of the DX200.

For saving the system program
 (It is used for writing the program when restoration)

This is for saving the system program from the DX200 by the program uploading operation. This compact flash can also be used for writing the batch data. Please prepare our recommended compact flash. For more details on recommended compact flashes, refer to "9.1.2 Device" in "DX200 INSTRUCTIONS".

For YCP21

This compact flash is to be inserted to YCP21. Prepare the one inserted to the YCP21, which was shipped as a spare-part, or the one shipped exclusively for YCP21 (it needs a special treatment for start-up, and thus our standard recommended compact flashes are unavailable).

- 12 Program Upload Function
- 12.2 Program Upload Procedure

12.2 Program Upload Procedure

Upload the program as shown below.

12.2.1 Preparation of Compact Flash

Prepare the compact flash with sufficient capacity (100MByte or more) for saving the system program and perform the following procedures.

- 1. Connect the compact flash to a PC.
- 2. Use Explorer, etc. to delete all the data in the compact flash.
- 3. Remove the compact flash from the PC and insert it to the compact flash slot on the programming pendant.

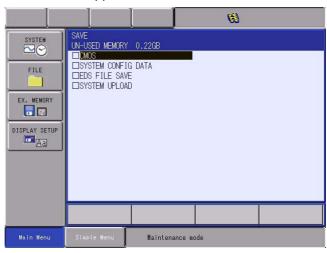
12.2.1.1 Uploading

Upload the program as shown below.

- 1. Turn ON the DX200 while pressing down the [MAIN MENU].
 - The maintenance mode starts.
- 2. Set the security mode to the management mode
- 3. Select {EX. MEMORY} under the main menu.
 - The sub menu appears.



- 12 Program Upload Function
- 12.2 Program Upload Procedure
- 4. Select {SAVE}.
 - The save window appears.



- 5. Select {SYSTEM UPLOAD}.
 - The confirmation dialog box appears.



- 6. Select {YES}.
 - Program upload starts.
 - When the message "Program uploading. Don't turn the power off." on the human interface display area disappears, uploading is completed.

For the case of restoration, be sure to retain the compact flash with the uploaded program after above mentioned procedures.

- 12 Program Upload Function
- 12.3 Restoration Procedure 1 (Writing the Program)

12.3 Restoration Procedure 1 (Writing the Program)

First, check whether the compact flash of the main CPU board (YCP21) needs replacing. If needed, replace the compact flash and perform the procedures mentioned in *chapter 12.3 "Restoration Procedure 1 (Writing the Program)" at page 12-4* and *chapter 12.4 "Restoration Procedure 2 (Loading the Batch Data)" at page 12-6.*



After the compact flash of YCP21 is replaced, the DX200 and the robot cannot be operated correctly unless the correct system program is written-in and the batch data is loaded or initialized in the maintenance mode. To ensure correct and safe operation, please take notice of this matter before operation.

12.3.1 Determining Failure of Compact Flash

If all of the following conditions are met, the compact flash is diagnosed as out of order.

- Power is correctly supplied to each board in the DX200.
- The programming pendant and YCP21 are correctly connected.
- The programming pendant remains displaying the initial window (an image of a robot on the screen) even one minute after the DX200 is turned ON and the 7SEG LEDs of the interface board (YIF01) remain lit.
- Nothing is changed regarding the conditions above after YCP21 is replaced.

For the conditions above, perform the following.

12.3.2 Preparation of Compact Flash for YCP21

Prepare the compact flash for YCP21.

Prepare the one inserted to the YCP21, which was shipped as a sparepart, or the one shipped exclusively for YCP21 (it needs a special treatment for start-up, and thus our standard recommended compact flashes are unavailable).

Insert this compact flash to YCP21.

12.3.3 Preparation of Compact Flash for Wiring the Program

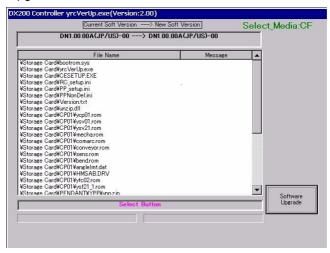
Insert the compact flash uploaded in *chapter 12.2 "Program Upload Procedure" at page 12-2* to the compact flash slot on the programming pendant.

- 12 Program Upload Function
- 12.3 Restoration Procedure 1 (Writing the Program)

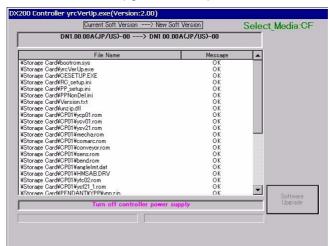
12.3.4 Writing the System Program

Write the system program as shown below.

- 1. Turn ON the DX200 while pressing down the [INTERLOCK] + [8] + [SELECT].
 - The upgrade tool starts.



- 2. Select {Software Upgrade}.
 - Start upgrade.
 - When the message "Turn off controller power supply" appears at the bottom of the window, upgrade is completed.



- 12 Program Upload Function
- 12.4 Restoration Procedure 2 (Loading the Batch Data)

12.4 Restoration Procedure 2 (Loading the Batch Data)

After finish writing of the system program, load the batch data previously saved (saved when the compact flash was correctly operating). The batch data include "CMOS.BIN" and "CMOSBK.BIN" (or "CMOSBK??.BIN: ?? represents a number"). Write any of these data into the compact flash, insert it to the compact flash slot on the programming pendant, and then perform the following.

Use our recommended compact flash (the compact flash for saving the system program is also available).



Before operation, please understand well that the data in the DX200 is replaced with the batch data in the compact flash when loading the batch data.

Check that the data wrote into the DX200 is the same as before after restoring the system. In addition, call the master job and check that the current position of the robot is safe before starting the robot.

The DX200 has the loading limitation of the batch data. When load the batch data, if the compact flash of the main CPU board(YCP21) is different from the one when saved the batch data, the batch data can not be loaded in the management mode or safety mode. (If the compact flash of the main CPU board(YCP21) is the identical, the batch data can be loaded in management mode or safety mode.)

When restore the compact flash of the main CPU board(YCP21), load the batch data in the one time manage mode.

For the one time manage mode, refer to "chapter7.1 Protection Through Security Mode Settings" of the DX200 INSTRUCTIONS and contact your Yaskawa representative.

12.4.1 When the Batch Data is "CMOS.BIN"

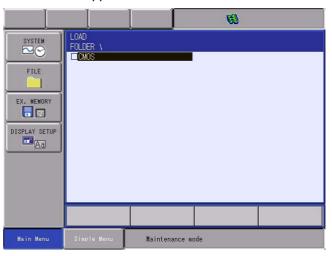
When the batch data is "CMOS.BIN", write the data as shown below.

- 1. Turn ON the DX200 while pressing down the [MAIN MENU].
 - The maintenance mode starts.
- 2. Set the security mode to the one time manage mode.
- 3. Select {EX. MEMORY} under the main menu.

- 12 Program Upload Function
- 12.4 Restoration Procedure 2 (Loading the Batch Data)
 - The sub menu appears.



- 4. Select {LOAD}.
 - The load window appears.



- 5. Select (CMOS).
 - The confirmation dialog box appears.



- 6. Select {YES}.
 - Loading starts and internal data of the DX200 is updated by CMOS.BIN file in the compact flash.

- 12 Program Upload Function
- 12.4 Restoration Procedure 2 (Loading the Batch Data)
 - When the message "Loading system data. Don't turn the power off." on the human interface display area disappears, loading is completed.

12.4.2 When the Batch Data is "CMOSBK.BIN"

When the batch data is "CMOSBK.BIN (or "CMOSBK??.BIN: ?? represents a number")", write the data as shown below.

- 1. Turn ON the DX200 while pressing down the [MAIN MENU].
 - The maintenance mode starts.
- 2. Set the security mode to the one time manage mode.
- 3. Select {EX. MEMORY} under the main menu.
 - The sub menu appears.
- 4. Select {SYSTEM RESTORATION}.
 - The backup file list window appears.

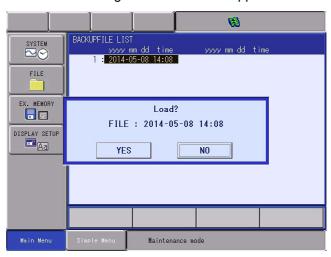


- 5. Select a date of a file to be backed-up.
 - The confirmation dialogue box to confirm whether the board has been replaced or not appears.



- Select {YES} to initializes "SYS MONITORING TIME".
- Select {NO} to keep "SYS MONITORING TIME" unchanged.

- 12 Program Upload Function
- 12.4 Restoration Procedure 2 (Loading the Batch Data)
- 6. Select {YES} or {NO}.
 - The confirmation dialog box for execution appears.



7. Select {YES}.

- Internal data of the DX200 is updated by CMOS.BIN file in the compact flash.
- When the message "Loading system data. Don't turn the power off." on the human interface display area disappears, loading is completed.

- 12 Program Upload Function
- 12.5 In Case of the Compact Flash Failure

12.5 In Case of the Compact Flash Failure

Prepare as follows for the compact flash failure.



Please be prepared for the compact flash failure for the quick and easy restoration of the DX200.

12.5.1 Preparation of Compact flash for YCP21

Prepare the compact flash for YCP21.

Prepare the one inserted to the YCP21, which was shipped as a sparepart, or the one shipped exclusively for YCP21 (it needs a special treatment for start-up, and thus our standard recommended compact flashes are unavailable).

12.5.2 Program Upload

Save the system program of the DX200 into the compact flash following the procedures mentioned in *chapter 12.2 "Program Upload Procedure"* at page 12-2. Be sure to retain the compact flash for system restoration.

12.5.3 Backup the Batch Data

Backup the batch data by following the procedures mentioned in "9.2 Backup by CMOS.BIN" or "9.3 Automatic Backup Function" in "DX200 INSTRUCTIONS". Be sure to retain backed-UP data.

13 Trouble Shooting When Alarm is not Displayed

When DX200 doesn't start and any alarm is not displayed, turn ON and OFF the power of DX200 controller.

When the condition doesn't change even after turning ON and OFF the DX200, follow the steps below.



WARNING

 To check the LED display of each unit, open the door of DX200 while the power is ON. When check the LED indication, be sure not to touch devices in the DX200.

Touching the devices may result in an electric shock.

13 Trouble Shooting When Alarm is not Displayed

The data of robot controller is stored in the CF card of YCP21 circuit board and the memory of I/F circuit board(YIF).

Screen status of programming pendant	7SEG LED for robot I/F circuit board (YIF)	Assumed status	Cause	Remedy
The screen does not become bright and nothing is displayed.	Lights OFF	The control power is not provided from the YPS power supply unit.	Power supply failure	When the green LED of YPS power supply unit SOURCE is OFF, check the followings -For the primary power supply voltage, make sure that the voltage is not dropped and there is no open phaseMake sure that the breaker is not trippedMake sure that the fuses of the YPS power ON unit (1FU,2FU) are not melt.
				When the fuse is melt, replace after checking the cause. (refer to *6) -Check whether the control power supply is not turned OFF by the external REMOTE signalMake sure that the following connectors are connected properly and there is no wiring error (disconnection). (1)YPU-CN601, CN603, CN610, CN612 (2) YPS-CN151
			Cable failure	-When the green LED of the YPS power supply unit SOURCE is ON, make sure that the following connectors are connected properly and there is no wiring error (disconnection). (1)YPS-CN152, CN154, CN158 (2)YRK-CN5 (3)YSF22-CN213, CN218 -Make sure that the red LED (5V) in the YPS power supply unit is OFF. When it is ON, make sure that there is no wiring error (ground fault or shortcircuit because of the wire damage) for the following connectors. (1)YPS-CN158 (2)YRK-CN5
		The YPS power supply unit is out of order.	YPS unit failure	Check that all the red LEDs [+5V][+24V][FAN][OHT] of YPS power supply unit are OFF. If these LEDs are OFF, replace the YPS unit. (refer to *3)
	'P'	The programming pendant is out of order or malfunctions.	Programming pendant failure	-Turn the power OFF then back ONIf the error occurs again, replace the programming pendant.

Screen status of programming pendant	7SEG LED for robot I/F circuit board (YIF)	Assumed status	Cause	Remedy
	(P)	The power supply is not provided from the YPS power supply unit to the programming pendant.	Cable failure	-Make sure that the cable between programming pendant and DX200 and the following connectors are connected properly and there is no wiring error (disconnection). (1)YPS-CN154 (2)YSF22-CN213, CN218 -After confirming the above and if there is no error, make sure that the red LED (24V) in the YPS power supply unit is OFF. When it is ON, make sure that there is no wiring error (ground fault or shortcircuit because of the wire damage) on the following connectors. (1)YPS-CN154, YPS-CN155 (2)YSF22-CN213, CN218, (3)EAXA-CN509, EAXA-CN510, (4)CV1-CN551, (5)X81(Pendant cable)
		The fuse of JANCD- YSF22□-E circuit board is melt.	YSF22 circuit board fuse failure	Check whether the D15 POWER(green) of JANCD-YSF22□-E circuit board is ON. When it is OFF, check the followingsWhen the fuses (F1,F2) of JANCD-YSF22□-E circuit board are melt,
		The JANCD-YSF22□-E circuit board is out of order.	YSF22 circuit board failure	The D15 POWER(green) of JANCD- YSF22□-E circuit board is out of order. Replace the JANCD-YSF22□-E circuit board. (refer to *5)
YASKAWA II	Lights OFF	The power supply is not provided from the YPS power supply unit to the CPU unit.	Cable failure	Make sure that the following connectors are connected properly and there is no wiring error (disconnection). (1) YPS-CN158 (2) YRK-CN5
The screen remains unchanged from the above, or changes to the following screen in about 6 minutes.		The robot I/F circuit board(YIF) is out of order or malfunctions.	YIF circuit board failure	-Turn the power OFF then back ONIf the error occurs again, remove all the circuit boards installed in the CPU rack and reinstall them If the error occurs again though reinstall them, replace the YIF circuit board. After replacing the board, load the CMOS.BIN file saved before the error occurs or the CMOSBK.BIN file saved in the automatic backup function in the maintenance mode. (refer to *4)

Screen status of programming			Cause	Remedy
pendant	robot I/F circuit board (YIF)			
	'0' or '1'	The YCP21 circuit board is out of order or malfunctions.	YCP21 circuit board failure	-Turn the power OFF then back ONIf the error occurs again, remove all the circuit boards installed in the CPU rack and reinstall themIf the error occurs again though reinstall them, replace the YCP21 circuit board. After replacing the board, remove the CF card inserted into the old YCP21 circuit board and insert it into the new YCP21 circuit board. (refer to *2)
		The system program cannot be read properly from the CF card in the YCP21 circuit board.	CF card (inserted into YCP21 circuit board) failure	-Turn the power OFF then back ONIf the error occurs again, remove the CF card from the YCP21 circuit board and reinstall itIf the error occurs again, replace the CF card of YCP21 circuit board. After replacing the card, load the CMOS.BIN file saved before the error occurs or the CMOSBK.BIN file saved in the automatic backup function in the maintenance mode. (refer to *8)
		The specified data cannot be read properly from the CF card in the YCP21 circuit board or an invalid value is specified.	CF card (inserted into YCP21 circuit board) failure	-Turn the power OFF then back ONIf the error occurs again, remove the CF card from the YCP21 circuit board and reinstall itIf the error occurs again, replace the CF card of YCP21 circuit board. After replacing the card, load the CMOS.BIN file saved before the error occurs or the CMOSBK.BIN file saved in the automatic backup function in the maintenance mode. (refer to *8)
		The robot I/F circuit board(YIF) is out of order or malfunctions.	YIF circuit board failure	-Turn the power OFF then back ONIf the error occurs again, remove all the circuit boards installed in the CPU rack and reinstall them If the error occurs again though reinstall them, replace the YIF circuit board. After replacing the board, load the CMOS.BIN file saved before the error occurs or the CMOSBK.BIN file saved in the automatic backup function in the maintenance mode. (refer to *4)
		The CPU rack (backboard) is out of order.	CPU rack failure	-Turn the power OFF then back ONIf the error occurs again, replace the CPU rack(backboard). (refer to *10)

Screen status of programming pendant	7SEG LED for robot I/F circuit board (YIF)	Assumed status	Cause	Remedy
	'P'	A communication error has occurred between the YCP21 circuit board and the programming pendant.	Cable failure	-Turn the power OFF then back ONCheck the connection and insertion status of the following cables and connectors. (1)The looseness of the programming pendant connector and confirmation by touch. (2)The cable between the YCP21 circuit board(CN105) and the programming pendant (3)The Ethernet cable of YCP21 circuit board(CN105) (4)The connector of YCP21 circuit board(CN105)
		The programming pendant is out of order or malfunctions.	Programming pendant failure	-Turn the power OFF then back ONIf the error occurs again, replace the programming pendant.
		The communication IC of YCP21 circuit board or its peripheral circuit is out of order.	YCP21 circuit board failure	-Turn the power OFF then back ONIf the error occurs again, remove all the circuit boards installed in the CPU rack and reinstall themIf the error occurs again though reinstall them, replace the YCP21 circuit board. After replacing the board, remove the CF card inserted into the old YCP21 circuit board and insert it into the new YCP21 circuit board. (refer to *2)
		The robot I/F circuit board(YIF) is out of order or malfunctions.	YIF circuit board failure	-Turn the power OFF then back ONIf the error occurs again, remove all the circuit boards installed in the CPU rack and reinstall them If the error occurs again though reinstall them, replace the YIF circuit board. After replacing the board, load the CMOS.BIN file saved before the error occurs or the CMOSBK.BIN file saved in the automatic backup function in the maintenance mode. (refer to *4)

Screen status of programming pendant	7SEG LED for robot I/F circuit board (YIF)	Assumed status	Cause	Remedy
	'P'	The programming pendant is out of order or malfunctions.	IP address or subnet mask specification failure	The IP address or subnet mask of programming pendant may be wrong. Confirm and specify the IP address or subnet mask. The followings are the confirmation procedure. (1)Turn ON the power while pressing
WindowsCE screen				"interlock+9+select". (2)After bleeping, leave hand. (3)After the message "Start was canceled" is displayed, press the OK button at the upper right. (4)Touch the lower left of screen with the pen to display the task bar and select START. (5)After the start menu is displayed, select [Settings] → [Control Panel] → [Network and Dial-up Connections] → [SMSC911X17]. (6)IP address specification screen is displayed and then confirm the followings are set. IP Address 10. 0. 0. 4. Subnet Mask 255.255.255. 0 Default Gateway Also, confirm that Specify an IP address is ticked.
			Data failure	The file stored in the programming pendant is not in the specified area. Perform "chapter3 Programming Pendant Setup" of the DX200 SETUP PROCEDURE MANUAL.
Controller<->Pendant Connection Failed.		The power supply is not provided from the YPS power supply unit to the programming pendant.	Cable failure	(1) Turn the power OFF then back ON (2) If the error occurs again, check the connection and insertion status of the following cables and connectors. a)The looseness of the programming pendant connector and confirmation by touch. b)The cable between the YCP21 circuit board(CN105) and the programming pendant c)The Ethernet cable of YCP21 circuit board(CN105) d)The connector of YCP21 circuit board(CN105)
		The programming pendant is out of order or malfunctions.	Programming pendant failure	(1) Turn the power OFF then back ON (2) If the error occurs again, replace the programming pendant.

Screen status of programming pendant	7SEG LED for robot I/F circuit board (YIF)	Assumed status	Cause	Remedy
Fault: Power Lost Signal !!	"0" → "9" → "9" → "0" is displayed by rotating.	The Power Lost signal of the YPS power unit was detected.	YIF circuit board failure	-Turn the power OFF then back ONIf the error occurs again, make sure that the following connectors are connected properly and there is no wiring error (disconnection). (1) YPS-CN158 (2) YRK-CN5 -If the error occurs again though check the wiring, remove all the circuit boards from the CPU rack and reinstall themIf the error occurs again though reinstall them, replace the YIF circuit board. After replacing the board, load the CMOS.BIN file saved before the error occurs or the CMOSBK.BIN file saved in the automatic backup function in the maintenance mode. (refer to *4)
Fault: I/O(JL098) Hardware Error!!		Initialization of JL098 incorporated in the robot I/F circuit board(YIF) was failed.	YIF circuit board failure	-Turn the power OFF then back ONIf the error occurs again, remove the YIF circuit board from the CPU rack and reinstall itIf the error occurs again though reinstall them, replace the YIF circuit board. After replacing the board, load the CMOS.BIN file saved before the error occurs or the CMOSBK.BIN file saved in the automatic backup function in the maintenance mode. (refer to *4)
Fault: SERVO(JL101) Hardware Error!!		Initialization of JL101 incorporated in the robot I/F circuit board(YIF) was failed.	YIF circuit board failure	-Turn the power OFF then back ONIf the error occurs again, remove the M III cable of the YIF circuit board and insert it againIf the error occurs again though remove and then insert the M III cable, replace the YIF circuit board. After replacing the board, load the COMS.BIN file saved before the error occurs or the CMOSBK.BIN file saved in the automatic backup function in the maintenance mode.(refer to *4)
Fault: Watch Dog TimeOut Signal !!		An error was detected in the watch dog circuit (which supervises the proper operation of the circuit board) incorporated in the robot I/F circuit board.	YIF circuit board failure	-Turn the power OFF then back ONIf the error occurs again, remove the YIF circuit board from the CPU rack and reinstall itIf the error occurs again though reinstall them, replace the YIF circuit board. After replacing the board, load the CMOS.BIN file saved before the error occurs or the CMOSBK.BIN file saved in the automatic backup function in the maintenance mode. (refer to *4)

Screen status of programming pendant	7SEG LED for robot I/F circuit board (YIF)	Assumed status	Cause	Remedy											
Character strings are displayed on the white screen and remain unchanged for 5 minutes or longer.	Either of '2' - '9', 'b' and 'C'	The YCP21 circuit board is out of order or malfunctions.	YCP21 circuit board failure	-Turn the power OFF then back ONIf the error occurs again, remove all the circuit boards installed in the CPU rack and reinstall themIf the error occurs again though reinstall them, replace the YCP21 circuit board. After replacing the board, remove the CF card inserted into the old YCP21 circuit board and insert it into the new YCP21 circuit board. (refer to *2)											
		The system program of YCP21 circuit board can not be read properly.	CF card (inserted into YCP21 circuit board) failure	-Turn the power OFF then back ONIf the error occurs again, remove the CF card from the YCP21 circuit board and reinstall itIf the error occurs again, replace the CF card of YCP21 circuit board. After replacing it, load the CMOS.BIN file saved before the error occurs or CMOSBK.BIN file saved in the automatic backup function in the maintenance mode. (refer to *8)											
		The specified data cannot be read properly from the CF card in the YCP21 circuit board or an invalid value is specified.	CF card (inserted into YCP21 circuit board) failure	-Turn the power OFF then back ONIf the error occurs again, remove the CF card from the YCP21 circuit board and reinstall itIf the error occurs again, replace the CF card of YCP21 circuit board. After replacing it, load the CMOS.BIN file saved before the error occurs or CMOSBK.BIN file saved in the automatic backup function in the maintenance mode. (refer to *8)											
															The robot I/F circuit board(YIF) is out of order or malfunctions.
		The programming pendant is out of order or malfunctions.	Programmin g pendant failure	-Turn the power OFF then back ONIf the error occurs again, replace the programming pendant.											
		The circuit board or the YCP02 circuit board inserted into the PCI slot of CPU rack is out of order or malfunctions.	Optional circuit board or YCP02 circuit board failure	-Turn the power OFF then back ONIf the error occurs again, remove the optional circuit board installed in the CPU rack or the YCP02 circuit board and reinstall itIf the error occurs again though reinstall it, replace the optional circuit board installed in the CPU rack or the YCP02 board.											
		The CPU rack (backboard) is out of order.	CPU rack failure	-Turn the power OFF then back ONIf the error occurs again, replace the CPU rack (backboard). (refer to *10)											

Screen status of programming pendant	7SEG LED for robot I/F circuit board (YIF)	Assumed	d status	Cause	Remedy
When the power is turned ON, the maintenance mode starts though the mode	'F'	The data in the robot I/F circuit board (YIF01) is invalid value.	The battery malfunctions.	Battery failure	-Turn the power OFF then back ONCheck the connection and insertion status of the YIF01 circuit board (CN110/BAT) connectorWhen the LED of the YIF01 circuit board(D5/BAT) is ON, replace the battery. After replacing the battery, load the CMOS.BIN file saved before the error occurs or the CMOSBK.BIN file saved in the automatic backup function in the maintenance mode. (refer to *1)
is not selected and the alarm"Memory battery weak" is displayed."			The IC storing the data is out of order.	YIF circuit board failure	-Turn the power OFF then back ONIf the error occurs again, remove the YIF circuit board from the CPU rack and reinstall itIf the error occurs again though reinstall them, replace the YIF circuit board. After replacing the board, load the CMOS.BIN file saved before the error occurs or the CMOSBK.BIN file saved in the automatic backup function in the maintenance mode. (refer to *4)
When the power is turned ON, the maintenance mode starts though the mode		board(YIF	: I/F circuit F) is out of nalfunctions.	YIF circuit board failure	-Turn the power OFF then back ONIf the error occurs again, remove the YIF circuit board from the CPU rack and reinstall itIf the error occurs again though reinstall them, replace the YIF circuit board. After replacing the board, load the CMOS.BIN file saved before the error occurs or the CMOSBK.BIN file saved in the automatic backup function in the maintenance mode. (refer to *4)
is not selected.		the YCP2	ard data in 11 circuit nvalid value.	CF card (inserted into the YCP21 circuit board) failure	-Turn the power OFF then back ONIf the error occurs again, remove the CF card from the YCP21 circuit board and reinstall itIf the error occurs again, replace the CF card of YCP21 circuit board. After replacing it, load the CMOS.BIN file saved before the error occurs or CMOSBK.BIN file saved in the automatic backup function in the maintenance mode. (refer to *8)

*1: Replacing the battery

For the replacement procedure, refer to *chapter 5.1.1.1* "Replacing the Battery" of the DX200 MAINTENANCE MANUAL.

*2: Replacing the YCP21 circuit board

For the replacement procedure, refer to *chapter 5.1.1.2* "Replacing the CPU circuit board (JANCD-YCP21-E)" of the DX200 MAINTENANCE MANUAL.

*3: Replacing the YPS power unit

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For the replacement procedure, refer to *chapter 5.1.1.3* "Replacing the YPS Unit (JZNC-YPS21-E)" of the DX200 MAINTENANCE MANUAL.

*4: Replacing the robot I/F circuit board(YIF)

For the replacement procedure, refer to *chapter 5.1.1.5* "Replacing the Robot I/F circuit board (JZNCD-YIF01-?E)" of the DX200 MAINTENANCE MANUAL.

*5: Replacing the machine safety logic circuit board
For the replacement procedure, refer to chapter 5.1.1.9 "Replacing the
Machine Safety Logic Circuit board (JANCD-YSF22?-E)" of the DX200
MAINTENANCE MANUAL.

*6: Replacing the fuse of the power ON unit(YPU)
For the replacement procedure, refer to *chapter 5.1.5.1 "Power ON Unit"*of the DX200 MAINTENANCE MANUAL.

- *7: Replacing the fuse of the machine safety logic circuit board
 For the replacement procedure, refer to *chapter 5.1.5.3 "Machine Safety Logic Circuit Board"* of the DX200 MAINTENANCE MANUAL.
- *8: Replacing the CF card of the YCP21 circuit board Replace it in the following procedure.
- Prepare the CF card of the same version.
 Prepare the CF card written the same version of the software as the currently used CF card.
- 2. Remove the current CF card from the YCP21 circuit board.
- 3. Install the new CompactFlash into the YCP21 circuit board.
- 4. Load the backup data. When load the CMOS. BIN file to restore, refer to "chapter 9.2.2 CMOS.BIN Load" of the DX200 INSTRUCTIONS. When load the CMOSBK.BIN file saved in the automatic backup function to restore, refer to "chapter 9.4 Loading the Backup Data from the CompactFlash" of the DX200 INSTRUCTIONS.
- *9: CMOS.BIN load or CMOSBK.BIN load

When load the CMOS. BIN file to restore, refer to "chapter 9.2.2 CMOS.BIN Load" of the DX200 INSTRUCTIONS.

When load the CMOSBK.BIN file saved in the automatic backup function to restore, refer to "chapter 9.4 Loading the Backup Data from the CompactFlash" of the DX200 INSTRUCTIONS.

*10: Replacing the CPU rack

Replace it in the following procedure.

- 1. Turn OFF the power of the DX200.
- 2. Remove all wires from the CPU rack. For details, refer to chapter 5.1.1 "Replacing Parts of the CPU Unit" of the DX200 MAINTENANCE MANUAL.
- 3. Remove the screws fixed in the CPU rack.
- 4. Replace the CPU rack with a new one.
- 5. Fix the screws firmly to the CPU rack.
- 6. Install all the wires removed at the above procedure 2.
- 7. Set the rotary switch and short pins on each circuit board in the CPU rack to the same value as the old board.



Be sure to back up the data after changing the setting or teaching in case the circuit board is out of order. For the backup procedure, refer to "chapter 9 System Backup" of the DX200 INSTRUCTIONS.

Alarm Number (0000 to 0999)

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
0010	CPU BOARD INSERTION ERROR	Code 30	YCP21 board was not able to recognize YSF21 board when the control power turned ON.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the YSF21 board.
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • YSF21 board
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0020	CPU COMMUNICATION ERROR	1	No response was sent from the YCP21 board when the control power turned ON.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connectors. The PCI connector of YCP21 board The PCI connector of the YIF01 board

Cause

Remedy

• The PCI connector of YCP02 board

Alarm Name

Alarm

Meaning

Sub

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		23	No response was sent from the optional board #4 when the control power turned ON.	Setting error	(1)Check the following settings. • Optional board setting in maintenance mode
				Connection failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, check the connection and insertion of the following connector.The PCI connector of YCP02 board
				YCP02 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.YCP02 board
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP02 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.YCP02 board
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		26	No response was sent from the optional board #7 when the control power turned ON.	Setting error	(1)Check the following settings. • Optional board setting in maintenance mode
				Connection failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, check the connection and insertion of the following connector.• The PCI connector of YCP02 board
				YCP02 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.YCP02 board

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code		YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		52	No response was sent from the servo board #3 when the control power turned ON.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The EAXA21 board rotary switch setting (2) of the corresponding node number (SV#3)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA21 board CN509 • The cable of EAXA21 board connector CN515/516 • The PCI connector of the YIF01 board • The cable of YIF01 board connector CN113
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		57	No response was sent from the servo board #8 when the control power turned ON.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The EAXA21 board rotary switch setting (7) of the corresponding node number (SV#8)
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. The cable of EAXA21 board CN509 The cable of EAXA21 board connector CN515/516 The PCI connector of the YIF01 board The cable of YIF01 board connector CN113
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		60	No response was sent from the functional safety board #1 when the control power turned ON.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The YSF25 board (#1) rotary switch setting (0). The EAXA21 board rotary switch setting (0) of the corresponding node number (SV#1)

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		67	No response was sent from the functional safety board #8 when the controller power is turned ON.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The YSF25 board (#8) rotary switch setting (7) The EAXA21 board rotary switch setting (7) of the corresponding node number (SV#8)
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. • CN509 cable of EAXA21 board • The cable of EAXA21 board connector CN515/516 • CNBXconnector of EAXA21board and the YSF25 board • The PCI connector of YIF01board • The cable of YIF01 board connector CN113
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		51	The communications CPU for the servo board #2 detected an error when the control power turned ON.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The EAXA21 board rotary switch setting (1) of the corresponding node number (SV#2)
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. The cable of EAXA21 board CN509 The cable of EAXA21 board connector CN515/516 The PCI connector of the YIF01 board The cable of YIF01 board connector CN113
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		52	The communications CPU for the servo board #3 detected an error when the control power turned ON.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The EAXA21 board rotary switch setting (2) of the corresponding node number (SV#3)

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		54	The communications CPU for the servo board #5 detected an error when the control power turned ON.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The EAXA21 board rotary switch setting (4) of the corresponding node number (SV#5)
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. The cable of EAXA21 board CN509 The cable of EAXA21 board connector CN515/516 The PCI connector of the YIF01 board The cable of YIF01 board connector CN113
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		56	The communications CPU for the servo board #7 detected an error when the control power turned ON.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The EAXA21 board rotary switch setting (6) of the corresponding node number (SV#7)
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. The cable of EAXA21 board CN509 The cable of EAXA21 board connector CN515/516 The PCI connector of the YIF01 board The cable of YIF01 board connector CN113
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		57	The communications CPU for the servo board #8 detected an error when the control power turned ON.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The EAXA21 board rotary switch setting (7) of the corresponding node number (SV#8)

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YCP02 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • YCP02 board
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		20	The system program of optional board #1 is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP02 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • YCP02 board
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		21	The system program of optional board #2 is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP02 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • YCP02 board
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		22	The system program of optional board #3 is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		Code		YCP02 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • YCP02 board
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		26	The system program of optional board #7 is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP02 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • YCP02 board
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		27	The system program of optional board #8 is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP02 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • YCP02 board
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		30	The system program of YSF21 board is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		53	The system program of servo board #4 is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		54	The system program of servo board #5 is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		65	The system program of functional safety board #6 is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		66	The system program of functional safety board #7 is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		67	The system program of functional safety board #8 is damaged.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	An error was detected in communications with the I/O module board connected with 2nd serial bus when the control power turned ON.	Setting error	 (1)Check the following settings. The rotary switch setting which specifies slot numbers of each I/O module I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. The M II communications cable which I/O module of the corresponding node number (In case of M II communications last station) Terminator 24V power of the corresponding I/O module
				I/O module failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. •The M Ilcommunications cable which I/O module of the corresponding node number • (In case of M Il communications last station) Terminator • 24V power of the corresponding I/O module
				I/O module failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	An error was detected in communications with the I/O module board connected with 5th serial bus when the control power turned ON.	Setting error	 (1)Check the following settings. The rotary switch setting which specifies slot numbers of each I/O module I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. •The M Ilcommunications cable which I/O module of the corresponding node number • (In case of M Il communications last station) Terminator • 24V power of the corresponding I/O module
				I/O module failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		7	An error was detected in communications with the I/O module board connected with 7th serial bus when the control power turned ON.	Setting error	 (1)Check the following settings. The rotary switch setting which specifies slot numbers of each I/O module I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The M II communications cable which I/O module of the corresponding node number • (In case of M II communications last station) Terminator • 24V power of the corresponding I/O module
				I/O module failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	An error was detected in communications with the I/O module board connected with 8th serial bus when the control power turned ON.	Setting error	 (1)Check the following settings. The rotary switch setting which specifies slot numbers of each I/O module I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		10	An error was detected in communications with the I/O module board connected with 10th serial bus when the control power turned ON.	Setting error	 (1)Check the following settings. The rotary switch setting which specifies slot numbers of each I/O module I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. •The M Ilcommunications cable which I/O module of the corresponding node number • (In case of M Il communications last station) Terminator • 24V power of the corresponding I/O module
				I/O module failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The M II communications cable which I/O module of the corresponding node number • (In case of M II communications last station) Terminator • 24V power of the corresponding I/O module
				I/O module failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		12	An error was detected in communications with the I/O module board connected with 12th serial bus when the control power turned ON.	Setting error	 (1)Check the following settings. The rotary switch setting which specifies slot numbers of each I/O module I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				EIP board failure	In the case of PCU-ETHIO(EtherNet/IP) board, please exchange with the board which firmware version is correct.
				PROFINET board failure	In the case of CP1616(PROFINET) board, please confirm the following communication configuration using SIEMENS manufactured setting tool (STEP 7). Please refer to the user manual of the CP1616 for more information on how to set. • When used as IO controller - Download the project file. • When used as IO device - Assignment of IP address and device name. Factory reset before performing the assignment.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		18	An error was detected in communications with the I/O module board connected with 3rd PCI when the control power turned ON.	Setting error	 (1)Check the following settings. PCI slot number in which each PCI board is mounted I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. The PCI connector of the corresponding I/O module
				I/O module failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • The corresponding I/O module (PCI board)
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0101	COMMUNICATION ERROR(EAXA#2)	1	The error was detected during the check of the serial communication watchdog data. Counter value received from EAXA21 board is invalid.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The EAXA21 board rotary switch setting (1) of the corresponding node number (SV#2)
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. The cable of EAXA21 board CN509 The cable of EAXA21 board connector CN515/516 The PCI connector of the YIF01 board The cable of YIF01 board connector CN113
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	The error was detected during the check of the number of the serial communications. Counter value received from EAXA21 board is off by one cycle.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The EAXA21 board rotary switch setting (1) of the corresponding node number (SV#2)
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. The cable of EAXA21 board CN509 The cable of EAXA21 board connector CN515/516 The PCI connector of the YIF01 board The cable of YIF01 board connector CN113
-				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0102	COMMUNICATION ERROR(EAXA#3)	1	The error was detected during the check of the serial communication watchdog data. Counter value received from EAXA21 board is invalid.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The EAXA21 board rotary switch setting (2) of the corresponding node number (SV#3)
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. The cable of EAXA21 board CN509 The cable of EAXA21 board connector CN515/516 The PCI connector of the YIF01 board The cable of YIF01 board connector CN113
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		Joan		YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0103	COMMUNICATION ERROR(EAXA#4)	1	The error was detected during the check of the serial communication watchdog data. Counter value received from EAXA21 board is invalid.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The EAXA21 board rotary switch setting (3) of the corresponding node number (SV#4)
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. The cable of EAXA21 board CN509 The cable of EAXA21 board connector CN515/516 The PCI connector of the YIF01 board The cable of YIF01 board connector CN113
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0104	COMMUNICATION ERROR(EAXA#5)	1	The error was detected during the check of the serial communication watchdog data. Counter value received from EAXA21 board is invalid.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The EAXA21 board rotary switch setting (4) of the corresponding node number (SV#5)
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. The cable of EAXA21 board CN509 The cable of EAXA21 board connector CN515/516 The PCI connector of the YIF01 board The cable of YIF01 board connector CN113
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0105	COMMUNICATION ERROR(EAXA#6)	1	The error was detected during the check of the serial communication watchdog data. Counter value received from EAXA21 board is invalid.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The EAXA21 board rotary switch setting (5) of the corresponding node number (SV#6)
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA21 board CN509 • The cable of EAXA21 board connector CN515/516 • The PCI connector of the YIF01 board • The cable of YIF01 board connector CN113
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	The error was detected during the check of the number of the serial communications. Counter value received from EAXA21 board is off by one cycle.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The EAXA21 board rotary switch setting (5) of the corresponding node number (SV#6)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA21 board CN509 • The cable of EAXA21 board connector CN515/516 • The PCI connector of the YIF01 board • The cable of YIF01 board connector CN113
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0106	COMMUNICATION ERROR(EAXA#7)	1	The error was detected during the check of the serial communication watchdog data. Counter value received from EAXA21 board is invalid.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The EAXA21 board rotary switch setting (6) of the corresponding node number (SV#7)
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. The cable of EAXA21 board CN509 The cable of EAXA21 board connector CN515/516 The PCI connector of the YIF01 board The cable of YIF01 board connector CN113
				EAXA21 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	The error was detected during the check of the number of the serial communications. Counter value received from EAXA21 board is off by one cycle.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The EAXA21 board rotary switch setting (6) of the corresponding node number (SV#7)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA21 board CN509 • The cable of EAXA21 board connector CN515/516 • The PCI connector of the YIF01 board • The cable of YIF01 board connector CN113
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0107	COMMUNICATION ERROR(EAXA#8)	1	The error was detected during the check of the serial communication watchdog data. Counter value received from EAXA21 board is invalid.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The EAXA21 board rotary switch setting (7) of the corresponding node number (SV#8)
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. The cable of EAXA21 board CN509 The cable of EAXA21 board connector CN515/516 The PCI connector of the YIF01 board The cable of YIF01 board connector CN113
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YPS02 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS02 board. Save the CMOS.BIN before replace the unit to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0200	MEMORY ERROR(PARAMETER FILE)	0	The RC parameter is damaged.	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1	The RO parameter is damaged.	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.

Alarm	Alarm Name	Name Sub	Meaning	Cause	Remedy
Number		Code			
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	The AP parameter is damaged.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		9	The RS parameter is damaged.	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		12	The AMC parameter is damaged.	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		13	The SVP parameter is damaged.	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.

Alarm Number	Alarm Name	Name Sub Code	Meaning	Cause	Remedy
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		125	RE parameter is damaged.	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		126	FMS parameter is damaged.	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code		other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1	The job files are damaged.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the job file in maintenance mode, and then load the data (job, variable data, Robot calibration data) saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	The management data of position data files are damaged.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the job file in maintenance mode, and then load the data (job, variable data, Robot calibration data) saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0240	MEMORY ERROR (DEVICENET ALLOC FL)	0	The DeviceNet allocation file 1 is damaged.	Setting error	 (1)Check the following settings. [XFB01 board] • The settings of the objective DeviceNet allocation file • The I/O module settings of the objective DeviceNet board in maintenance mode • The DeviceNet allocation of the I/O module in maintenance mode
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1	The DeviceNet allocation file 2 is damaged.	Setting error	 (1)Check the following settings. [XFB01 board] • The settings of the objective DeviceNet allocation file • The I/O module settings of the objective DeviceNet board in maintenance mode • The DeviceNet allocation of the I/O module in maintenance mode
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0300	VERIFY ERROR (SYSTEM CONFIG- DATA)	2	CIO parameter error.	Setting error	(1)Check the following settings. • I/O module settings in maintenance mode
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	Axis-related parameter error.	Setting error	(1)Check the following settings.Control group settings in maintenance mode
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	Sensor-use parameter error.	Setting error	(1)Check the following settings. • The optional board setting in maintenance mode

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	The set optional functions are different from those of the mounted optional board.	Setting error	(1)Check the following settings. • The optional board setting in maintenance mode
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	IO type error (combination impossible to coexist).	Setting error	(1)Check the following settings. • I/O module settings in maintenance mode
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		10	Functional Safety board save data error	Setting error	(1)Select the following menu."File"-"Initialize", "Functional Safety Board FLASH Reset" in maintenance mode.(2)Turn the power OFF then back ON.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		11	Ex. AXIS INDIVIDUAL CONTROL Parameter Setting error (EX.TU# out of a range).	Setting error	(1)Check the following settings. • [Option function] - [Ex. AXIS INDIVIDUAL CONTROL(SDA)] settings in maintenance mode
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		20	Machine safety board save data error	Setting error	(1)Select the following menu. • [File]-[Initialize],[Machine Safety Board FLASH Reset] (2)Turn the power OFF then back ON. (3)If the alarm occurs again, select the following menu. • [File]-[Initialize]-[I/O Data],[YSF LOGIC FILE]
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YSF21 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • YCP21 board
				YIF01 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.YIF01 board
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0301	VERIFY ERROR (OVERRUN INPUT SET)		Sub Code: Control group Parameter specification and OT signal information are wrong	Setting error	(1)Check the following settings. • Connection settings (OT) in maintenance mode
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				I/O module failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	The I/O module connected to the serial bus #2 is different from the function of the set I/O module.	Setting error	 (1)Check the following settings. The rotary switch setting which specifies slot numbers of each I/O module I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. The M II communications cable which I/O module of the corresponding node number (In case of M II communications last station) Terminator 24V power of the corresponding I/O module
				I/O module failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		Code		Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. •The M Ilcommunications cable which I/O module of the corresponding node number • (In case of M Il communications last station) Terminator • 24V power of the corresponding I/O module
				I/O module failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	The I/O module connected to the serial bus #5 is different from the function of the set I/O module.	Setting error	 (1)Check the following settings. The rotary switch setting which specifies slot numbers of each I/O module I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The M II communications cable which I/O module of the corresponding node number • (In case of M II communications last station) Terminator • 24V power of the corresponding I/O module
				I/O module failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		7	The I/O module connected to the serial bus #7 is different from the function of the set I/O module.	Setting error	 (1)Check the following settings. The rotary switch setting which specifies slot numbers of each I/O module I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The M II communications cable which I/O module of the corresponding node number • (In case of M II communications last station) Terminator • 24V power of the corresponding I/O module
				I/O module failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	The I/O module connected to the serial bus #8 is different from the function of the set I/O module.	Setting error	 (1)Check the following settings. The rotary switch setting which specifies slot numbers of each I/O module I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		10	The I/O module connected to the serial bus #10 is different from the function of the set I/O module.	Setting error	 (1)Check the following settings. The rotary switch setting which specifies slot numbers of each I/O module I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. •The MII communications cable which I/O module of the corresponding node number • (In case of M II communications last station) Terminator • 24V power of the corresponding I/O module
				I/O module failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		11	The I/O module connected to the serial bus #11 is different from the function of the set I/O module.	Setting error	 (1)Check the following settings. The rotary switch setting which specifies slot numbers of each I/O module I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The M II communications cable which I/O module of the corresponding node number • (In case of M II communications last station) Terminator • 24V power of the corresponding I/O module
				I/O module failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		12	The I/O module connected to the serial bus #12 is different from the function of the set I/O module.	Setting error	 (1)Check the following settings. The rotary switch setting which specifies slot numbers of each I/O module I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. •The MII communications cable which I/O module of the corresponding node number • (In case of M II communications last station) Terminator • 24V power of the corresponding I/O module
				I/O module failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		13	The I/O module connected to the serial bus #13 is different from the function of the set I/O module.	Setting error	 (1)Check the following settings. The rotary switch setting which specifies slot numbers of each I/O module I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The M II communications cable which I/O module of the corresponding node number • (In case of M II communications last station) Terminator • 24V power of the corresponding I/O module
				I/O module failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy	
Number		Code	de			
		15	The I/O module connected to the serial bus #15 is different from the function of the set I/O module.	Setting error	(1)Check the following settings. • The rotary switch setting which specifies slot numbers of each I/O module • I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.	
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. •The Mll communications cable which I/O module of the corresponding node number • (In case of M Il communications last station) Terminator • 24V power of the corresponding I/O module	
				I/O module failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.	
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.	
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).	
		16	The I/O module connected to the 1st PCI bus is different from the function of the set I/O module.	Setting error	(1)Check the following settings. • PCI slot number in which each PCI board is mounted • I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.	
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. The PCI connector of the corresponding I/O module 	

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		18	The I/O module connected to the 3rd PCI bus is different from the function of the set I/O module.	Setting error	(1)Check the following settings. • PCI slot number in which each PCI board is mounted • I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. The PCI connector of the corresponding I/O module
				I/O module failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • The corresponding I/O module (PCI board)
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		19	The I/O module connected to the 4th PCI bus is different from the function of the set I/O module.	Setting error	 (1)Check the following settings. PCI slot number in which each PCI board is mounted I/O module settings in maintenance mode Please refer to the manual of each IO module for the details of the setting.
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. The PCI connector of the corresponding I/O module
				I/O module failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • The corresponding I/O module (PCI board)

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0330	VERIFY ERROR (APPLICATION)			YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0340	VERIFY ERROR (SENSOR FUNCTION)			YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
0350	VERIFY ERROR (DEVICENET ALLOC FL)		The station No. specified by the DeviceNet allocation file1 is incorrect (the station No. is out of the allowable range, or the specified station board is not the DeviceNet master).	Setting error	 (1)Check the following settings. [XFB01 board] The settings of the objective DeviceNet allocation file The I/O module settings of the objective DeviceNet board in maintenance mode The DeviceNet allocation of the I/O module in maintenance mode
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1	The MAC_ID specified by the DeviceNet allocation file1 is not consistent with the MAC_ID of the specified station board.	Setting error	 (1)Check the following settings. [XFB01 board] The settings of the objective DeviceNet allocation file The I/O module settings of the objective DeviceNet board in maintenance mode The DeviceNet allocation of the I/O module in maintenance mode
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Inconsistency was detected in the scan list of the DeviceNet allocation file1.	Setting error	 (1)Check the following settings. [XFB01 board] The settings of the objective DeviceNet allocation file The I/O module settings of the objective DeviceNet board in maintenance mode The DeviceNet allocation of the I/O module in maintenance mode
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		10	The station No. specified by the DeviceNet allocation file2 is incorrect (the station No. is out of the allowable range, or the specified station board is not the DeviceNet master).	Setting error	 (1)Check the following settings. [XFB01 board] • The settings of the objective DeviceNet allocation file • The I/O module settings of the objective DeviceNet board in maintenance mode • The DeviceNet allocation of the I/O module in maintenance mode
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode and then contact your Yaskawa representative about occurrence status (operating procedure).
		11	The MAC_ID specified by the DeviceNet allocation file2 is not consistent with the MAC_ID of the specified station board.	Setting error	 (1)Check the following settings. [XFB01 board] • The settings of the objective DeviceNet allocation file • The I/O module settings of the objective DeviceNet board in maintenance mode • The DeviceNet allocation of the I/O module in maintenance mode
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		12	Inconsistency was detected in the scan list of the DeviceNet allocation file2.	Setting error	 (1)Check the following settings. [XFB01 board] • The settings of the objective DeviceNet allocation file • The I/O module settings of the objective DeviceNet board in maintenance mode • The DeviceNet allocation of the I/O module in maintenance mode

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		51	An error occurred during the parameter/file transfer to the 2nd servo board.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The EAXA21 board rotary switch setting (1) of the corresponding node number (SV#2)
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. The cable of EAXA21 board CN509 The cable of EAXA21 board connector CN515/516 The PCI connector of the YIF01 board The cable of YIF01 board connector CN113
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		57	An error occurred during the parameter/file transfer to the 8th servo board.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The EAXA21 board rotary switch setting (7) of the corresponding node number (SV#8)
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. The cable of EAXA21 board CN509 The cable of EAXA21 board connector CN515/516 The PCI connector of the YIF01 board The cable of YIF01 board connector CN113
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		60	An error occurred during the parameter/file transfer to the 1st functional safety board.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The YSF25 board (#1) rotary switch setting (0). The EAXA21 board rotary switch setting (0) of the corresponding node number (SV#1)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. • CN509 cable of EAXA21 board • The cable of EAXA21 board connector CN515/516 • CNBXconnector of EAXA21board and YSF25 board • The PCI connector of YIF01board • The cable of YIF01 board connector CN113
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		61	An error occurred during the parameter/file transfer to the 2nd functional safety board.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The YSF25 board (#2) rotary switch setting (1). The EAXA21 board rotary switch setting (1) of the corresponding node number (SV#2)

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		63	An error occurred during the parameter/file transfer to the 4th functional safety board.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The YSF25 board (#4) rotary switch setting (3). The EAXA21 board rotary switch setting (3) of the corresponding node number (SV#4)
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. • CN509 cable of EAXA21 board • The cable of EAXA21 board connector CN515/516 • CNBXconnector of EAXA21board and the YSF25 board • The PCI connector of YIF01board • The cable of YIF01 board connector CN113
				YSF25 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		64	An error occurred during the parameter/file transfer to the 5th functional safety board.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The YSF25 board (#5) rotary switch setting (4). The EAXA21 board rotary switch setting (4) of the corresponding node number (SV#5)

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		66	An error occurred during the parameter/file transfer to the 7th functional safety board.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The YSF25 board (#7) rotary switch setting (6). The EAXA21 board rotary switch setting (6) of the corresponding node number (SV#7)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. • CN509 cable of EAXA21 board • The cable of EAXA21 board connector CN515/516 • CNBXconnector of EAXA21board and the YSF25 board • The PCI connector of YIF01board • The cable of YIF01 board connector CN113
				YSF25 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		67	An error occurred during the parameter/file transfer to the 8th functional safety board.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The YSF25 board (#8) rotary switch setting (7). The EAXA21 board rotary switch setting (7) of the corresponding node number (SV#8)

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		50	An error occurred during startup sequence processing with the servo CPU of 1st servo board, and the system did not startup normally.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The EAXA21 board rotary switch setting (0) of the corresponding node number (SV#1)
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. The cable of EAXA21 board CN509 The cable of EAXA21 board connector CN515/516 The PCI connector of the YIF01 board The cable of YIF01 board connector CN113
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		51	An error occurred during startup sequence processing with the servo CPU of 2nd servo board, and the system did not startup normally.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The EAXA21 board rotary switch setting (1) of the corresponding node number (SV#2)
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. The cable of EAXA21 board CN509 The cable of EAXA21 board connector CN515/516 The PCI connector of the YIF01 board The cable of YIF01 board connector CN113

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		53	An error occurred during startup sequence processing with the servo CPU of 4th servo board, and the system did not startup normally.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The EAXA21 board rotary switch setting (3) of the corresponding node number (SV#4)
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. The cable of EAXA21 board CN509 The cable of EAXA21 board connector CN515/516 The PCI connector of the YIF01 board The cable of YIF01 board connector CN113
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		54	An error occurred during startup sequence processing with the servo CPU of 5th servo board, and the system did not startup normally.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The EAXA21 board rotary switch setting (4) of the corresponding node number (SV#5)
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. The cable of EAXA21 board CN509 The cable of EAXA21 board connector CN515/516 The PCI connector of the YIF01 board The cable of YIF01 board connector CN113

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		55	An error occurred during startup sequence processing with the servo CPU of 6th servo board, and the system did not startup normally.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The EAXA21 board rotary switch setting (5) of the corresponding node number (SV#6)
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. The cable of EAXA21 board CN509 The cable of EAXA21 board connector CN515/516 The PCI connector of the YIF01 board The cable of YIF01 board connector CN113
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		56	An error occurred during startup sequence processing with the servo CPU of 7th servo board, and the system did not startup normally.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The EAXA21 board rotary switch setting (6) of the corresponding node number (SV#7)
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of EAXA21 board CN509 • The cable of EAXA21 board connector CN515/516 • The PCI connector of the YIF01 board • The cable of YIF01 board connector CN113
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		57	An error occurred during startup sequence processing with the servo CPU of 8th servo board, and the system did not startup normally.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The EAXA21 board rotary switch setting (7) of the corresponding node number (SV#8)
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. The cable of EAXA21 board CN509 The cable of EAXA21 board connector CN515/516 The PCI connector of the YIF01 board The cable of YIF01 board connector CN113

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		60	An error occurred during startup sequence processing with the CPU of 1st functional safety board, and the system did not startup normally.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The YSF25 board (#1) rotary switch setting (0). The EAXA21 board rotary switch setting (0) of the corresponding node number (SV#1)
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. • CN509 cable of EAXA21 board • The cable of EAXA21 board connector CN515/516 • CNBXconnector of EAXA21board and the YSF25 board • The PCI connector of YIF01board • The cable of YIF01 board connector CN113
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		61	An error occurred during startup sequence processing with the CPU of 2nd functional safety board, and the system did not startup normally.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The YSF25 board (#2) rotary switch setting (1). The EAXA21 board rotary switch setting (1) of the corresponding node number (SV#2)
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. • CN509 cable of EAXA21 board • The cable of EAXA21 board connector CN515/516 • CNBXconnector of EAXA21board and the YSF25 board • The PCI connector of YIF01board • The cable of YIF01 board connector CN113
				YSF25 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		62	An error occurred during startup sequence processing with the CPU of 3rd functional safety board, and the system did not startup normally.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The YSF25 board (#3) rotary switch setting (2). The EAXA21 board rotary switch setting (2) of the corresponding node number (SV#3)

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		64	An error occurred during startup sequence processing with the CPU of 5th functional safety board, and the system did not startup normally.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The YSF25 board (#5) rotary switch setting (4). The EAXA21 board rotary switch setting (4) of the corresponding node number (SV#5)
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. • CN509 cable of EAXA21 board • The cable of EAXA21 board connector CN515/516 • CNBXconnector of EAXA21board and the YSF25 board • The PCI connector of YIF01board • The cable of YIF01 board connector CN113
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code		Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. • CN509 cable of EAXA21 board • The cable of EAXA21 board connector CN515/516 • CNBXconnector of EAXA21board and the YSF25 board • The PCI connector of YIF01board • The cable of YIF01 board connector CN113
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		67	An error occurred during startup sequence processing with the CPU of 8th functional safety board, and the system did not startup normally.	Setting error	 (1)Check the following settings. Control group settings in maintenance mode The YSF25 board (#8) rotary switch setting (7). The EAXA21 board rotary switch setting (7) of the corresponding node number (SV#8)
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. • CN509 cable of EAXA21 board • The cable of EAXA21 board connector CN515/516 • CNBXconnector of EAXA21board and the YSF25 board • The PCI connector of YIF01board • The cable of YIF01 board connector CN113
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				XFB01B board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • XFB01B board
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0500	SEGMENT PROC NOT READY			Setting error	(1)Check the following settings. • Instruction execution cycle
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
0510	SOFTWARE VERSION UNMATCH	20	1st option board's interface version is not corresponding to YCP21.	YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		21	2nd option board's interface version is not corresponding to YCP21.	YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		30	YSF21 board's boot interface version is not corresponding to YCP21.	Software error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the YSF21 board version and then consult your Yaskawa representative.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		50	1st servo board's interface version is not corresponding to YCP21.	YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		51	2nd servo board's interface version is not corresponding to YCP21.	YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		52	3rd servo board's interface version is not corresponding to YCP21.	YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		53	4th servo board's interface version is not corresponding to YCP21.	YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		54	5th servo board's interface version is not corresponding to YCP21.	YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		55	6th servo board's interface version is not corresponding to YCP21.	YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		56	7th servo board's interface version is not corresponding to YCP21.	YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		57	8th servo board's interface version is not corresponding to YCP21.	YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
0604	MEDAR MODE CHANGE ERROR			MADER timer error	Refer to the instruction manual for the MEDAR function.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0605	MEDAR SCHEDULE TRANSMIT ERROR			MADER timer error	Refer to the instruction manual for the MEDAR function.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0606	MEDAR ERROR 1			MADER timer error	Refer to the instruction manual for the MEDAR function.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0607	MEDAR ERROR 2			MADER timer error	Refer to the instruction manual for the MEDAR function.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0608	MEDAR WELDER TYPE MISMATCH			MADER timer error	Refer to the instruction manual for the MEDAR function.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0609	MEDAR PARAMETER ERROR			MADER timer error	Refer to the instruction manual for the MEDAR function.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0610	MEDAR STEPPER TRANSMIT ERROR			MADER timer error	Refer to the instruction manual for the MEDAR function.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
0700	VERIFY ERROR (EX IO ALLOC FILE)				(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then set the IO module.
				Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YIF01 board failure	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0710	LADDER INITIALIZE ERROR			Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
0720	LADDER PROGRAM ERROR	1	An error was found in the relay No. specification.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	An error was found in the register No. specification.	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		3	An incorrect instruction was set.	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	Output register is used redundantly.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		5	Output relay is used redundantly.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	Unconnected relay exists.	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		9	A syntax error was found in the CNT instruction.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		10	The head of the block starts with an instruction other than the STR instruction.	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		13	An error was found in the PART instruction.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		14	An error was found in the GOUT instruction.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		17	The step capacity exceeds the memory capacity.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		18	The number of operation instructions exceed the permissible value.	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		21	The label of JMP destination does not exist.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0730	COMMUNICATION ERROR (SKS-SERIAL)	0	Welder power serial I/F task cannot be created.	YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1	Incorrect values are set for the communication frame number with the welder power.	Setting error	(1)Check the following setting.The number of communication frames for Welder power serial communication (RS262)
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.

Alarm	Alarm Name	n Name Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Incorrect values are set for the number of the sending bytes per frame with the welder power.	Setting error	(1)Check the following setting. • The number of the sending bytes for Welder power serial communication (RS262)
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	Incorrect values are set for the number of the receiving bytes per frame with the welder power.	Setting error	(1)Check the following setting. • The number of the receiving bytes for Welder power serial communication (RS262)
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		10	The binary semaphore to start up event for Welder power serial I/F task cannot be created.	YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
0800	FILE BACKUP ERROR (YCP21 CF)		The management area (FAT) of Compact Flash in YCP21 board is damaged.	YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0801	FILE LOAD ERROR (YCP21 CF)			YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3000	PANELBOX.LOG file broken	DATA failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, select the following menu. • [SYSTEM]-[DATA REBUILD]
				Compact Flash failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the Compact Flash. Save the CMOS.BIN before replace the board to be safe. Replace the Compact Flash, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
0802	FILE I/O ERROR (YCP21 CF)			YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0803	FILE ERROR		An error occurred during the parameter of Manipulator Model (mecha.rom) loading.	YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0810	TOYOPUC ALLOC DEF ERROR	1	An error was found in the input/output direction data of allocation configuration.	Setting error	(1)Check the following settings.Allocation configuration for the TOYOPUC
				Connection failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, check the connection and insertion of the following connector.The PCI connector of the TOYOPUC board
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	An error was found in the type set for output direction of allocation configuration data.	Setting error	(1)Check the following settings. • Allocation configuration for the TOYOPUC
				Connection failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, check the connection and insertion of the following connector.The PCI connector of the TOYOPUC board
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		9	An error was found in the type set for input direction of allocation configuration data.	Setting error	(1)Check the following settings. • Allocation configuration for the TOYOPUC
				Connection failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, check the connection and insertion of the following connector.The PCI connector of the TOYOPUC board
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		10	An error was found in the type specified for system data of allocation configuration data.	Setting error	(1)Check the following settings. • Allocation configuration for the TOYOPUC
				Connection failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, check the connection and insertion of the following connector.The PCI connector of the TOYOPUC board
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code	_		
		31	In the input side setting of allocation configuration data, the set number to use the input side R-register of the TOYOPUC exceeds the R-register limit.	Setting error	(1)Check the following settings. • Allocation configuration for the TOYOPUC
				Connection failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, check the connection and insertion of the following connector.The PCI connector of the TOYOPUC board
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		32	In the input side setting of allocation configuration data, the set number to use the M-register of concurrent I/O exceeds the M-register limit.	Setting error	(1)Check the following settings. • Allocation configuration for the TOYOPUC
				Connection failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, check the connection and insertion of the following connector.The PCI connector of the TOYOPUC board
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		34	An error was found in the specified number of registers which are used by the system data "standard time setting data" of allocation configuration.	Setting error	(1)Check the following settings.Allocation configuration for the TOYOPUC
				Connection failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, check the connection and insertion of the following connector.The PCI connector of the TOYOPUC board

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		41	In the output side setting of allocation configuration data, some of the TOYOPUC's R-registers are specified redundantly.	Setting error	(1)Check the following settings. • Allocation configuration for the TOYOPUC
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. The PCI connector of the TOYOPUC board
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		42	In the output side setting of allocation configuration data, some of the M-registers of concurrent I/O are specified redundantly.	Setting error	(1)Check the following settings. • Allocation configuration for the TOYOPUC
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. The PCI connector of the TOYOPUC board
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		44	In the input side setting of allocation configuration data, some of the TOYOPUC's Rregisters are specified redundantly.	Setting error	(1)Check the following settings.• Allocation configuration for the TOYOPUC

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0904	WATCHDOG TIMER ERROR(YCP02#4)		A Watchdog timeout was detected in the YCP02 #4 board.	Setting error	(1)Check the following settings. • Optional board in maintenance mode
				YCP02 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • YCP02 board
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0905	WATCHDOG TIMER ERROR(YCP02#5)		A Watchdog timeout was detected in the YCP02 #5 board.	Setting error	(1)Check the following settings. • Optional board in maintenance mode
				YCP02 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • YCP02 board

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0916	CPU ERROR (YCP02#6)		An error was detected in the CPU.	Setting error	(1)Check the following settings. • Optional board in maintenance mode
				YCP02 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • YCP02 board
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0917	CPU ERROR (YCP02#7)		An error was detected in the CPU.	Setting error	(1)Check the following settings. • Optional board in maintenance mode
				YCP02 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • YCP02 board
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		1		YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • YSF21 board
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0931	CPU HANG UP ERROR(YCP02#1)		An error was detected in the CPU.	Setting error	(1)Check the following settings. • Optional board in maintenance mode
				YCP02 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • YCP02 board
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0947	WATCHDOG TIMER ERROR(EAXA#8)		A Watchdog timeout was detected in the EAXA#8 board.	EAXA21 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.EAXA21 board
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0952	CPU ERROR (EAXA#3)		An error was detected in the CPU of servo board #3.	Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. The cable of EAXA21 board CN509 The cable of EAXA21 board connector CN515/516 The PCI connector of the YIF01 board The cable of YIF01 board connector CN113
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0955	CPU ERROR (EAXA#6)		An error was detected in the CPU of servo board #6.	Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. The cable of EAXA21 board CN509 The cable of EAXA21 board connector CN515/516 The PCI connector of the YIF01 board The cable of YIF01 board connector CN113
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1	An error was detected in the CPU of functional safety board #1 (CPU2).	Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. • CN509 cable of EAXA21 board • The cable of EAXA21 board connector CN515/516 • CNBX connector of EAXA21board and the YSF25 board • The PCI connector of YIF01board • The cable of YIF01 board connector CN113
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • EAXA21 board
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
0971	CPU ERROR (YSF25#2)	0	An error was detected in the CPU of functional safety board #2 (CPU1).	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. • CN509 cable of EAXA21 board • The cable of EAXA21 board connector CN515/516 • CNBX connector of EAXA21board and the YSF25 board • The PCI connector of YIF01board • The cable of YIF01 board connector CN113
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • EAXA21 board
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the SYF25 board. Save the CMOS.BIN before replace the board to be safe.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • EAXA21 board
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
0972	CPU ERROR (YSF25#3)	0	An error was detected in the CPU of functional safety board #3 (CPU1).	Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. CN509 cable of EAXA21 board The cable of EAXA21 board connector CN515/516 CNBX connector of EAXA21board and the YSF25 board The PCI connector of YIF01board The cable of YIF01 board connector CN113
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • EAXA21 board
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
0973	CPU ERROR (YSF25#4)	0	An error was detected in the CPU of functional safety board #4 (CPU1).	Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. • CN509 cable of EAXA21 board • The cable of EAXA21 board connector CN515/516 • CNBX connector of EAXA21board and the YSF25 board • The PCI connector of YIF01board • The cable of YIF01 board connector CN113
				YSF25 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • EAXA21 board
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		1	An error was detected in the CPU of functional safety board #4 (CPU2).	Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. • CN509 cable of EAXA21 board • The cable of EAXA21 board connector CN515/516 • CNBXconnector of EAXA21board and the YSF25 board • The PCI connector of YIF01board • The cable of YIF01 board connector CN113
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • EAXA21 board
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
0974	CPU ERROR (YSF25#5)	0	An error was detected in the CPU of functional safety board #5 (CPU1).	Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. CN509 cable of EAXA21 board The cable of EAXA21 board connector CN515/516 CNBXconnector of EAXA21board and the YSF25 board The PCI connector of YIF01board The cable of YIF01 board connector CN113
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • EAXA21 board
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
0975	CPU ERROR (YSF25#6)	0	An error was detected in the CPU of functional safety board #6 (CPU1).	Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. • CN509 cable of EAXA21 board • The cable of EAXA21 board connector CN515/516 • CNBXconnector of EAXA21board and the YSF25 board • The PCI connector of YIF01board • The cable of YIF01 board connector CN113
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • EAXA21 board
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
0976	CPU ERROR (YSF25#7)	0	An error was detected in the CPU of functional safety board #7 (CPU1).	Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. • CN509 cable of EAXA21 board • The cable of EAXA21 board connector CN515/516 • CNBX connector of EAXA21board and the YSF25 board • The PCI connector of YIF01board • The cable of YIF01 board connector CN113
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • EAXA21 board
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
0977	CPU ERROR (YSF25#8)	0	An error was detected in the CPU of functional safety board #8 (CPU1).	Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. CN509 cable of EAXA21 board The cable of EAXA21 board connector CN515/516 CNBX connector of EAXA21board and the YSF25 board The PCI connector of YIF01board The cable of YIF01 board connector CN113
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • EAXA21 board
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • EAXA21 board
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0981	WATCHDOG TIMER ERROR(YSF25#2)		A Watchdog timeout was detected in the functional safety board #2.	YSF25 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • EAXA21 board
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0984	WATCHDOG TIMER ERROR(YSF25#5)		A Watchdog timeout was detected in the functional safety board #5.	YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • EAXA21 board
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0985	WATCHDOG TIMER ERROR(YSF25#6)		A Watchdog timeout was detected in the functional safety board #6.	YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • EAXA21 board

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YPS unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS unit. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	YCP21board detect the WATCHDOG TIMER ERROR of YIF01 board when the control power turned ON.	YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YPS unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS unit. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	YCP21board detect the Servo IF Initialize error of YIF01 board when the control power turned ON.	YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		7	It was detected that AC power supply became less than the specified voltage.	Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • The cable of YPS unit connector CN158/159 • The CN5 connector of the YBB21 back board. • Cable replace between the YPS01 unit and the YBB21 back board.
				YPS unit failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the YPS unit. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		Зххх	YCP21board detect the Servo IF Initialize error of YIF01 board when the control power turned ON. The last three digits indicate an internal error code.	YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YPS unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPS unit. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0998	SYSTEM ERROR (YCP02#8)	1	An error was detected in the CPU of the optional YCP02 #8.	YCP02 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • YCP02 board
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
0999	NMI ERROR			Software operation error occurred	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number (1000 to 1999)

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
1000	ROM ERROR(YCP21)			Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1001	ROM ERROR(EAXA21)	11	A checksum error occurred in the board or the EEPROM. (*: axis No.)	EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		12	A checksum error occurred in the board or the EEPROM.(*: axis No.)	EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		13	A checksum error occurred in the board or the EEPROM. (*: axis No.)	EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		14	A checksum error occurred in the board or the EEPROM. (*: axis No.)	EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
		Code			
		15	A checksum error occurred in the board or the EEPROM. (*: axis No.)	EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		16	A checksum error occurred in the board or the EEPROM. (*: axis No.)	EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		17	A checksum error occurred in the board or the EEPROM. (*: axis No.)	EAXA21 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		18	A checksum error occurred in the board or the EEPROM. (*: axis No.)	EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		19	A checksum error occurred in the board or the EEPROM. (*: axis No.)	EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	Memory size (Code area + static variable area) required by MotoPlus Application is over the limit(2Mbyte).	Setting error	(1) Check the static memory definition of the application program.(2) Redesign the application program in order not to exceed the memory size limitation.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	Undefined symbols are included in the application. The Symbols are not included in the MotoPlusAPI library or standard function library.	Setting error	Check that the application program doesn't include any undefined symbols such as function and constant that are not provided by the system.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	Load failure (The application cannot be loaded since the memory (program area + static variable area) that the MotoPlus application requires exceeds the specified value (2Mbyte) .)	Setting error	 (1)Check if the static variables are correctly defined in the MotoPlus application. (2)Review the MotoPlus application program so that the memory used for it doesn't exceed the specified value. (3)Check if the object files are correctly created by MotoPlusIDE.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	API library initialization failure because of Insufficient system memory to load MotoPlusAPI library	Setting error	Under current system configuration and the combination of optional functions, the YCP21 board (Main CPU board) doesn't have enough memory to run MotoPlus application. If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure). It may be necessary to change the YCP21 board to the one with a large-capacity memory.

Alarm	Alarm Name	ame Sub	Meaning	Cause	Remedy
Number		Code			
		1	ROxG parameter error	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate parameter file in maintenance mode, and then load the parameter file saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	SVD, SVxG parameter error	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate parameter file in maintenance mode, and then load the parameter file saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	SVMxG parameter error	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate parameter file in maintenance mode, and then load the parameter file saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	FD parameter error	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate parameter file in maintenance mode, and then load the parameter file saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	A1P, A2P,, A8P parameter error	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate parameter file in maintenance mode, and then load the parameter file saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	n Name Sub	Meaning	Cause	Remedy
Number		Code			
		9	RS parameter error	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate parameter file in maintenance mode, and then load the parameter file saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		10	S1E, S2E,, S8E parameter error	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate parameter file in maintenance mode, and then load the parameter file saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		11	SVCxB parameter error	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate parameter file in maintenance mode, and then load the parameter file saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		12	AMCxG parameter error	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate parameter file in maintenance mode, and then load the parameter file saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		13	SVPxG parameter error	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate parameter file in maintenance mode, and then load the parameter file saved in the external memory device.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		14	MFxG parameter error	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate parameter file in maintenance mode, and then load the parameter file saved in the external memory device.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
1031	MEMORY ERROR(MOTION1)	0	"GET FILE" instruction, "SET FILE" instruction execution target file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1	Home position calibration file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Tool file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	User coordinates file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	Robot calibration file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	Tool calibration file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	Weaving amplitude condition file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	Home position correction data file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	Conveyor calibration file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		9	Arm and tool interference prevention file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		20	Weaving file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		21	Power Source condition data file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		22	Welding condition auxiliary file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		23	Arc start condition file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		28	Painting characteristics file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		29	Painting condition file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		30	Multi-layer index file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		31	Multi-layer condition file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		32	Sensor monitoring condition file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		38	Air-gun condition file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		39	Motor-gun condition file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		40	Gun pressure file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		41	Gun pressure file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		42	Anticipation OT# output file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		47	Linear servo float condition file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		48	Macro definition file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		49	Seal amount correction condition file (spray)	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		50	Seal amount correction condition file (undercoat)	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		51	Arc monitor file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		57	Paint characteristics file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		58	EVB gun file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		59	Paint filling file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		60	Welding pulse condition file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		61	Clearance file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		62	Linear scale condition file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		63	Gauging sensor condition file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		64	Conveyor condition auxiliary file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		65	Laser welding start condition file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		66	Laser welding end condition file	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		67	Palletizing condition file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		68	Air-gun pressure file	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		69	Mastering registration position	Data error	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1033	MEMORY ERROR (MODEL DATA FILE)		Sub;Model file number	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, initialize the appropriate data in maintenance mode, and then load the data saved in the external memory device.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
1051	SET-UP PROCESS ERROR(MOTION)	1	Unable to properly activate the servo control	EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	The position data of when the power supply was turned OFF cannot be transmitted to the servo control section	EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	The servo control section cannot receive the position data of when the power supply was turned OFF	EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	Unable to send a request to turn ON the PG power supply for the mounted (PICK) axis	EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	Unable to turn ON the PG power supply for the mounted (PICK) axis	EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		11	Unable to send a request to prepare the current position	YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		12	Unable to prepare the current position	YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1053	SYSTEM ERROR (EVENT)		Sub Code 1 to 8: Signifies the internal software error at event process.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1100	SYSTEM ERROR		Sub Code C, B, F: Subcode of unknown alarm	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				RAM software data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		38	The wrist axes correction angle surpassed its limit while the linear servo float or gun arm bend compensation function is running.	Setting error	(1)Check the following settings. Correct the teaching point where this alarm occurs. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		47	The alarm number is illegal.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		49	Parameter was changed during execution of servo float function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		52	An error occurred when gun control command is executed.	EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		60	The axis endless function is set enabled for motor guns.	Setting error	(1)Check the following settings. Disable the corresponding axis endless function.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		70	The machine safety unit(YSF21 board) doesn't support the external axis individual control by the secondary contactor.	YSF21 board failure	Replace the YSF21 board which supports for the external axis individual control by the secondary contactor.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		106	The sequence was untimely executed in the dynamics compensation process although it was not the execution timing.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
		107	The sequence was untimely executed in the servo communications CERF sending process although it was not the execution timing.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
		108	The sequence was untimely executed in the servo communications CERF receiving process although it was not the execution timing.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
		109	The sequence was untimely executed in the segment_R process although it was not the execution timing.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				EAXA21 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
		133	The segment_OPT3 process did not complete within the time set on the scheduling table.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
		151	The averaging time is not an even number. (times)	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		200	The notch filter doesn't become effective after shifting to PLAY mode.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		303	The difference between the base torque and the target torque exceeded the threshold in the jig robot bending correction.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		500	Inconsistency of FP register.	EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		1007	The check item number of SVC parameter is unmatched.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2100	The motioning software is not used with circuit board as target.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2500	The JL077 in which the each fault signal is recognized but no notification is sent from the converter.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA21-CN507,510 • EAXB21-CN531,532,533 • Converter-CN551,553 • EX1SV(External axis servo pack)-CN591,592 (3)If the alarm repeatedly occurs, check if all the cables above are correctly connected.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3000	The parameter number of the universal SERVOPACK is not valid.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4001	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		4050	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4051	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4052	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4053	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4054	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4055	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4056	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4057	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		4082	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4083	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4084	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4085	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4086	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4087	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4088	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4089	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		4106	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4107	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4108	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4109	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4110	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4111	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4112	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about
		4113	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4114	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		4115	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4116	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4117	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4118	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4119	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4120	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4121	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4122	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		4123	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4124	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4125	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4126	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4127	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4128	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4129	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4130	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		4131	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4132	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4133	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4134	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4135	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4136	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4137	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4138	Execution of motion command did not complete within a certain time period.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		7401	Buffer-related area for category 1 has not completed initialization.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7402	Buffer-related area for category 1 has not completed initialization.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7403	Buffer-related area for category 1 has not completed initialization.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7404	Buffer-related area for category 1 has not completed initialization.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7405	Buffer-related area for category 1 has not completed initialization.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7406	Buffer-related area for category 1 has not completed initialization.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7407	Buffer-related area for category 1 has not completed initialization.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7408	Buffer-related area for category 1 has not completed initialization.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		7409	Buffer-related area for category 1 has not completed initialization.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7500	Direct-in number setting error (NSRCH)	Setting error	Three or more direct-in numbers are set for NSRCH instruction. Check the direct-in number setting.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7600	The setting value for touch pressure is not appropriate.	Setting error	The value set for Touch press (proportion to the 1st pressure) in the gun detail setting file is over 100%. Change the setting value to less than 100%.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1109	SYSTEM ERROR(CONVEYOR)			Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1200	HIGH TEMPERATURE(IN CNTL BOX)			The temperature rises in the controller	If the LED (OHT) on the YPS21 unit lights up, wait until the inside of the controller has got cool and then turn the power OFF then back ON.
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection of the following cable. CN159 power supply cable of the cooling fan in the YPS21 unit
				YPS21 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following unit. • YPS21 unit

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1204	COMMUNICATION ERROR(I/O MODULE)		The communication error slot (Serial-bus-connected I/O module communication station No.) is displayed by the bit. 0: correct / 1: incorrect	Connection failure	Check the insertion and connection of the followings. • The M II communications cable which I/O module of the corresponding sub code • (In case of MII communications last station) Terminator • 24V power of the corresponding I/O module
				IO module failure	Replace the I/O module of the corresponding station number.
				Power supply broken	Replace the 24V power supply supplied to the I/O module of the corresponding station number.
				YIF01 board broken	Save the CMOS.BIN file. Replace the YIF01 board, and then load the saved CMOS.BIN file.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1220	LAN COMMUNICATION PARAMETER ERROR	1	Incorrect setting of the IP address which is used in the Ethernet function.	Setting error	(1)Check the following settings. • IP address setting of network in maintenance mode
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Incorrect setting of the subnet mask which is used in the Ethernet function.	Setting error	(1)Check the following settings.Subnet mask of network in maintenance mode
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	Incorrect setting of the default gateway which is used in the Ethernet function.	Setting error	(1)Check the following settings.Default gateway of network in maintenance mode

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	Incorrect setting of the host address which is used in the Ethernet function.	Setting error	(1)Check the following settings.Server (host) of network in maintenance mode
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		30	Incorrect setting of the parameter which is used for the SNTP of the Ethernet function.	Setting error	(1)Check the following settings.SNTP setting of network in maintenance mode
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		31	Incorrect setting of the IP address of the SNTP server which is used in the Ethernet function of the SNTP.	Setting error	(1)Check the following settings.SNTP setting of network in maintenance mode
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		32	Incorrect setting of the IP address of the SNTP server which is used in the Ethernet function of the SNTP.	Setting error	(1)Check the following settings.SNTP setting of network in maintenance mode
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		33	Incorrect setting of the DHCP parameter which is used in the Ethernet function of the SNTP.	Setting error	(1)Check the following settings.SNTP setting of network in maintenance mode

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
		20	An error occurred in the Web server task creating process of the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
		21	An error occurred in the FTP server task creating process of the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
		22	An error occurred in the FTP client task creating process of the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		63	The data acquired from the server were found illegal in the DHCP of the Ethernet function.	Setting error	(1)Check the following settings.The DHCP server operationThe network status
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		64	An error occurred in the subnet mask acquisition process in the DHCP of the Ethernet function.	Setting error	(1)Check the following settings.The DHCP server operationThe network status
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		65	An error occurred in the DNS server address acquisition process in the DHCP of the Ethernet function.	Setting error	(1)Check the following settings.The DHCP server operationThe network status
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		66	An error occurred in the Ethernet function DNS domain getting process in the DHCP of the Ethernet function.	Setting error	(1)Check the following settings.The DHCP server operationThe network status
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		67	An error occurred in the SNTP server address acquisition process in the DHCP of the Ethernet function.	Setting error	(1)Check the following settings.The DHCP server operationThe network status
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		68	An error occurred in the IP address acquisition process in the DHCP of the Ethernet function.	Setting error	(1)Check the following settings.The DHCP server operationThe network status

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		71	An error occurred in the DNS resolver setting of the Ethernet function.	Setting error	 (1)Check the following settings. • The domain name • The DNS related settings • The DHCP server operation • The network status
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		72	The parameter setting error occurred in the DNS resolver setting of the Ethernet function.	Setting error	 (1)Check the following settings. • The domain name • The DNS related settings • The DHCP server operation • The network status
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		73	The mode error occurred in the DNS resolver setting of the Ethernet function.	Setting error	 (1)Check the following settings. • The domain name • The DNS related settings • The DHCP server operation • The network status

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		13	Invalid processing was detected by the safety field bus.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2xxxx	The error was detected by the CIP Safety stack (CH1). Subcode shows the error part of software.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		Зхххх	The error was detected by the CIP Safety stack (CH2). Subcode shows the error part of software.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1300	SERVO CPU SYNCHRONIZING ERROR			Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA21-CN515 • YIF01-CN113
				EAXA21 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	JL0101 alarm	Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. EAXA21-CN515 YIF01-CN113
				YPS21 unit failure	(1)Turn the power OFF then back ON. (2) If the alarm occurs again, check the LED of the YPS21 unit: If any of the following red LED indications; +5V or +24V, FAN, OHT has lighten up, replace the YPS21 unit.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	Communication status error	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA21-CN515 • YIF01-CN113

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
1303	ARITHMETIC ERROR(SERVO)		The data [X] indicates the generation process. 10000: Observer control 20000: High-precision path control 30000: Dynamics 40000: Disturbance observer control The data [YYY_] indicates the alarm contents. The data [Z] indicates the physical axis number.	Tool file setting error	(1)Check the following settings. Reexamine the tool file setting. (Check the units of mass and center of gravity, positive/negative signs.)
				Motor load error	(1)Check the followings. Overload is applied to the manipulator. Correct the tools, the work pieces, and the drive condition.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1304	EX-AXIS BOARD NOT INSTALLED			Setting error	(1)Check the following settings. Check the parameter setting of external axis selection.
				Connection failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, check the connection and insertion of the following cables and connectors.• EAXA21-CNAX-EAXB21
				EAXB board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				Module failure (encoder)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the encoder.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1308	CONVERTER TYPE MISMATCH		Sub Code: Signifies the converter in which the alarm occurred	Setting error	 (1)Check the following settings. Check the current capacity of the amplifier before/after replacement by the model described in board. When the external axis is mounted, check if there is no difference between the converter selected at configuration and the converter that is actually mounted. Reference parameter: after SVCxB040
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA21-CN507,510 • EAXB21-CN531,532,533 • Converter-CN551,553 • EX1SV(External axis servo pack)-CN591,592
				Module failure (converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the converter.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1309	HARDWARE ERROR (CONVERTER)			Module failure (converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the converter.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
1316	COMMUNICATION WDT ERROR(SERVO)			Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA21-CN515 • YIF01-CN113
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then remove the CF from the failure YCP21 board to insert it into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1317	COMMAND TIMEOUT(SERVO)		Sub Code: Signifies the axis in which the alarm occurred	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1318	CANNOT EXECUTE COMMAND(SERVO)		Sub Code: Signifies the axis in which the alarm occurred	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1319	SERIAL ENCODER MODULE ERROR			Module failure (encoder)	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the encoder.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1320	SERIAL ENCODER SENSOR ERROR			Module failure (encoder)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the encoder.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				Module failure (encoder)	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the encoder.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board and the EAXB board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1327	ENCODER OVER SPEED		Sub Code: Signifies the axis in which the alarm occurred	Connection failure	 (1)Turn the power OFF then back ON. (2) Before turning the servo power OFF, change the manipulator posture so that any axes won't drop when the servo power is turned ON. (3) If the alarm occurs again in combination with encoder backup error, replace the battery of the appropriate axis. (4) If the alarm occurs again, check the connection and insertion of the following cables and connectors. [Robot axis] Cable between encoders EAXA21-CN508 [External axis] Cable between encoders EAXB21-CN0534,535,536
				Encoder failure	Replace the defective motor (encoder).
				YBK21 board failure	(1)Check the following settings. Check whether to find error in the brake slip and the brake control relay.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
1330	MICRO PROGRAM TRANSMIT ERROR		Sub Code: Signifies the axis in which the alarm occurred	EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1331	CONVERTER CHARGE ERR(CONVERTER)			Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA21-CN507,510 • EAXB21-CN531,532,533 • Converter CN551,553 • EX1SV(External axis servo pack)-CN591,592
				Primary power failure	Check if the primary power supply voltage does not drop.
				Module failure (converter)	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the converter.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1332	POSITION ERROR			EAXA21 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.Check the position after the alarm.
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. [Robot axis] • Cable between encoders • EAXA21-CN508 [External axis] • Cable between encoders • EAXB21-CN0534,535,536

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
1339	OVER SPEED LIMIT			Setting error	Check the JOB.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1341	SERVO OVERRUN ERROR			Motion range error	Check if the overrun limit switch is activated by the manipulator.
				Connection failure	Check the overrun line.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1343	COMMUNICATION ERROR (CONVERTER)	101	Communication status error (The first digit shows the converter No.)	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA21-CN507,510 • EAXB21-CN531,532,533 • Converter-CN551,553 • EX1SV(External axis servo pack)-CN591,592
				Module failure (converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the converter.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		102	Command timeout (The first digit shows the converter No.)	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA21-CN507,510 • EAXB21-CN531,532,533 • Converter-CN551,553 • EX1SV(External axis servo pack)-CN591,592

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		105	Error code received (The first digit shows the converter No.)	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA21-CN507,510 • EAXB21-CN531,532,533 • Converter-CN551,553 • EX1SV(External axis servo pack)-CN591,592
				Module failure (converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the converter.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		106	Receive command error (The first digit shows the converter No.)	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA21-CN507,510 • EAXB21-CN531,532,533 • Converter-CN551,553 • EX1SV(External axis servo pack)-CN591,592
				Module failure (converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the converter.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		201	Communication status error (The first digit shows the converter No.)	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA21-CN507,510 • EAXB21-CN531,532,533 • Converter-CN551,553 • EX1SV(External axis servo pack)-CN591,592
				Module failure (converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the converter.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		202	Command timeout (The first digit shows the converter No.)	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA21-CN507,510 • EAXB21-CN531,532,533 • Converter-CN551,553 • EX1SV(External axis servo pack)-CN591,592
				Module failure (converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the converter.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		305	Error code received (The first digit shows the converter No.)	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA21-CN507,510 • EAXB21-CN531,532,533 • Converter-CN551,553 • EX1SV(External axis servo pack)-CN591,592
				Module failure (converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the converter.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		306	Receive command error (The first digit shows the converter No.)	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA21-CN507,510 • EAXB21-CN531,532,533 • Converter-CN551,553 • EX1SV(External axis servo pack)-CN591,592
				Module failure (converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the converter.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		505	Error code received (The first digit shows the converter No.)	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA21-CN507,510 • EAXB21-CN531,532,533 • Converter-CN551,553 • EX1SV(External axis servo pack)-CN591,592
				Module failure (converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the converter.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		506	Receive command error (The first digit shows the converter No.)	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA21-CN507,510 • EAXB21-CN531,532,533 • Converter-CN551,553 • EX1SV(External axis servo pack)-CN591,592
				Module failure (converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the converter.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		603	Transmission buffer FULL (The first digit shows the converter No.)	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA21-CN507,510 • EAXB21-CN531,532,533 • Converter-CN551,553 • EX1SV(External axis servo pack)-CN591,592
				Module failure (converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the converter.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		604	CRC-16 failure (The first digit shows the converter No.)	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA21-CN507,510 • EAXB21-CN531,532,533 • Converter-CN551,553 • EX1SV(External axis servo pack)-CN591,592
				Module failure (converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the converter.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
		Code			
1345	SAFE CIRCUIT SIGNAL NOT SAME(SV)		Sub Code: XYY (Signifies the power-ON unit No. and unmatched signal No.) X: Power-ON unit 0: Power-ON unit1 (TU#1) 1: Power-ON unit2 (TU#2) 2: Power-ON unit3 (TU#3) 3: Power-ON unit4 (TU#4) 4: Power-ON unit5 (TU#5) 5: Power-ON unit6 (TU#6) YY: Unmatched signal 01: KMMA signal unmatched error 02: SVMAIN signal unmatched error 03: SVMAIN1/2 signal unmatched error 04: IORDY signal unmatched error 05: ONEN signal unmatched error 06: FUCUT signal unmatched error 07: SHOCK1 signal unmatched error 07: SHOCK1 signal unmatched error 08: EXOT signal unmatched error 10: TUSONER signal unmatched error 10: TUSONER signal unmatched error	Connection failure	Check if the unmatched two double-checked signals are in agreement.

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
		Code			
1345	SAFE CIRCUIT SIGNAL NOT SAME(SV)		12: TCER signal unmatched error 13: SON_OUT signal unmatched error 14: BRRVER signal unmatched error 60: Error due to unmatched output signal for servo board failure 61: Error due to unmatched	Connection failure	Check if the unmatched two double-checked signals are in agreement.
			signal for the main contactor state (closed contact) 62: Error due to unmatched signal for the main contactor state (open contact) 63: Error due to unmatched input signal for the main contractor control relay 64: Error due to unmatched input signal for the OT recovery 65: Error due to unmatched input signal for the external WDT 66: Error due to unmatched 1FB input signal: the brake release control signal E.g.) Sub Code: 208 EXOT signal of the Power-ON unit2 (TU#2) is unmatched.		
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1349	POWER LOST DETECTION (EAXA21/02)			Instant power failure	Check if the primary power supply voltage is dropping.

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1352	SERIAL ENCODER CORRECTION ERROR		Sub Code: Signifies the axis in which the alarm occurred	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. [Robot axis] • Cable between encoders • EAXA21-CN508 [External axis] • Cable between encoders • EAXB21-CN0534,535,536
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. [Robot axis] • Cable between encoders • EAXA21-CN508 [External axis] • Cable between encoders • EAXB21-CN0534,535,536
				Module failure (encoder)	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the encoder.
				EAXA21 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
1365	GROUND FAULT		Sub Code: Signifies the axis in which the alarm occurred. (If the alarm occurred at an axis which is driven by a common converter, all the subject axes are indicated.)	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. • EAXA21-CN507,510 • Converter CN551,553,555 • EX1SV (External axis SERVO PACK)-CN592 • YPU unit-CN604
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following cables. Check the axis in which earth fault occurs in the alarm history screen. If both robot axes and external axes use the same type converter, the earth fault may occur on the external axis not the robot axis. (There is also a possibility that it is stained by water) (1) External axis cables (Power wire) (2) Traveling axis cable (Power wire) (3) Power supply cable (Robot axis, external axis) (Power wire) (4) Internal cables (Robot axis, external axis) (Power wire)
				Module failure(Regenerative resistor)	Check if there is no ground fault in the regeneration resistors.
				GND wiring failure	(1)Turn the power OFF then back ON.(2) If the alarm repeats, check the voltage of the primary power and GND. If the voltage amount on each RST varies more than 100V, review the GND setting.
				Module failure(motor)	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the motor.
				Module failure(amplifier)	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the amplifier.
				Module failure(contactor)	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the contactor.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replacing the board to be safe.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				Module failure(Regenerative resistor)	(1)Disconnect the converter CN557 to check if there is no cable disconnection. (2)If disconnected, replace the regenerative resistor.
				Module failure(converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the converter.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replacing the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1368	REGENERATIVE TROUBLE (CONVERTER)		Sub Code: Signifies the axis in which the alarm occurred	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. • EAXA21-CN507,510 • EAXB21-CN531,532,533 • Converter-CN557 • Cable between the regenerative resistors
				Module failure(Regenerative resistor)	Replace the regenerative resistor.
				Module failure(converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the converter.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replacing the board to be safe.
				Overloading	Check that the load does not exceed the allowable limit.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1369	INPUT POWER OVER VOLTAGE(CONV)		Sub Code: Signifies the physical No. of converter in which the alarm occurred	Voltage failure	Modify the primary breaker voltage to the specified voltage 200V(+10 % \sim 15%).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. • EAXA21-CN507,510 • EAXB21-CN531,532,533 • Converter CN551,553 • EX1SV (External axis SERVO PACK)-CN591,592
				Module failure(converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the converter.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replacing the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1400	ENCODER ERROR(CONVEYOR)	1	Conveyor encoder 1 is abnormal.	Connection failure, Module failure (encoder)	Replace the cable of the conveyor encoder 1 or encoder.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Conveyor encoder 2 is abnormal.	Connection failure, Module failure (encoder)	Replace the cable of the conveyor encoder 2 or encoder.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	Conveyor encoder 3 is abnormal.	Connection failure, Module failure (encoder)	Replace the cable of the conveyor encoder 3 or encoder.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1401	CANNOT CHANGE CONVEYOR MODE			Input error	Do not switch "Encoder / Virtual encoder" with the general signal while performing the conveyor synchronized function.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1514	OVERHEAT (AMPLIFIER)			The temperature rises in the amplifier	Turn the power OFF then back ON after cooling the amplifier.
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA21-CN507,510 • EAXB21-CN531,532,533 • Converter-CN551,553 • Amplifier-CN581 • EX1SV(External axis servo pack)-CN591,592
				Module failure (converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the converter.
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1515	SON_OUT RELAY STICKING (SERVO I/O)			Circuit board failure (YPU unit)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1516	BRRCER RELAY STICKING (SERVO I/O)			Circuit board failure (YPU unit)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
1593	MONITOR PLD ERROR 2(SERVO I/O)			Circuit board failure (YPU unit)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1594	MONITOR PLD ERROR 3(SERVO I/O)			Circuit board failure (YPU unit)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1610	F-SAFE CPU SYNCHRO ERROR			Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA21-CN515 • YIF01-CN113 • YSF25-CNBX
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1612	F-SAFE COMMUNICATION ERROR	0	Communication status error	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA21-CN515 • YIF01-CN113 • YSF25-CNBX

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	Communication status error	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA21-CN515 • YIF01-CN113 • YSF25-CNBX
				YSF25 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	Data consistency error	Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. EAXA21-CN515 YIF01-CN113 YSF25-CNBX

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YSF25 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	CRC error	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA21-CN515 • YIF01-CN113 • YSF25-CNBX
				YSF25 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	CRC error	YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
			CRC error	other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7		YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1613	F-SAFE ENCODER COMM. ERR 1		Sub Code: Signifies the axis in which the alarm occurred	Blown fuse	If AL1962 "EAXA21 board failure" occurred simultaneously with this alarm, Replace the fuse(F1) in the EAXA21 board.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1615	F-SAFE SYSTEM ERROR			YSF25 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1616	F-SAFE SYSTEM ERROR 1			YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1618	F-SAFE ARITHMETIC ERROR			YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1619	F-SAFE PARAMETER ERROR			YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1626	F-SAFE BOARD NOT INSTALLED			Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA21-YSF25
				YSF25 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				EAXA21 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1627	F-SAFE BOARD COMM ERROR(SERVO)			Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA21-YSF25
				YSF25 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				EAXA21 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1630	F-SAFE MUTUAL DIAG. ERR(WDT)			YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	Low voltage error detected in the 3.3V supply line.	YSF25 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	Low voltage error detected in the 5.0V supply line.	YSF25 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	Low voltage error detected in the 24.0V supply line.	YSF25 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1636	F-SAFE OVER VOLTAGE	1	Over voltage error detected in the 1.0V supply line.	YSF25 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Over voltage error detected in the 1.5V supply line.	YSF25 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1639	F-SAFE RAM AREA CONVERSION ERR			YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1640	F-SAFE REAL TIME MONITOR ERROR			YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1642	F-SAFE WATCHDOG SIGNAL ERROR			YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy	
Number		Code				
1643	F-SAFE SAFETY SIGNAL SET ERROR		Sub Code:Code [X] indicates the abnormal content. 1000: Input/output signal number in conditionfile is abnormal. 2000: Functional safety general input signal that is not available is set in condition file. 3000: Functional safety general output signal that is not available is set in condition file. 4000: Safety fieldbus input signal that is not available is set in condition file. 5000: Safety fieldbus output signal that is not available is set in condition file. 5000: Safety fieldbus output signal that is not available is set in condition file. 6000: File valid condition data is abnormal. Code [_ Y] indicates the type of condition file abnormality occurs. 100: Axis range limit function 200: Axis speed monitor function 300: Speed limit function 400: Robot range limit function 500: Tool angle monitor function Code [Z Z] indicates the number of condition file abnormality occurs.	Data error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the configuration of condition file abnormality occurs.	Alarm Number (1000 to 1999)

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	An error occurred when the first data was not received during the last data communication at execution of motion command.	EAXA21 board failure	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1651	FILE TRANSFER DATA SIZE ERR (SV)	1	The data size for the file transfer does not agree with the received buffer size.	EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Buffer size over	EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1652	DB ON ERROR (SERVO)		Sub Code: Signifies the axis in which the alarm occurred	EAXA21 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
1653	BASE BLOCK SIGNAL ERROR(SERVO)		Sub Code: Signifies the axis in which the alarm occurred	EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				Module failure (amplifier)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the amplifier.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1654	PG POWER ON MULTIPLE REQ (SV)			Setting error	Check if the PICK instruction was executed again for the axis where executed the PICK instruction in the gun change system.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1655	CONVERTER COMMAND ERROR (SV)			Module failure (converter)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1656	AXIS ENDLESS INFO NOT GENERATED(SV)			Setting error	Check the JOB. (1)Turn the power OFF then back ON. (2)If the error occurs again, contact your Yaskawa representative.
1657	AXIS ENDLESS SPECIFIC. ERR(SV)	1	The home position detecting function was used for the axis for which the axis endless function was enabled. The home position detecting function cannot be used for the axis which the axis endless function was enabled.	Setting error	Disable either the axis endless function or the home position detection function of corresponding axis.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		2	The servo float function was used for the axis for which the axis endless function was enabled. The servo float function cannot be used for the axis which the axis endless function was enabled.	Setting error	Disable either the axis endless function or the servo float function of corresponding axis.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	The encoders manufactured by Tamagawa Seiki Co., Ltd. was used for the axis for which the axis endless function was enabled. The encoders manufactured by Tamagawa Seiki Co., Ltd. cannot be used for the axis which the axis endless function was enabled.	Setting error	Disable the corresponding axis endless function.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	The general servo function was used for the axis for which the axis endless function was enabled. The general servo function cannot be used for the axis which the axis endless function was enabled.	Setting error	Disable the corresponding axis endless function.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1661	MOTOR GUN COND. FILE NO. ERR(SV)			File setting error	Check the gun condition file.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1662	MOTOR GUN PRESS FILE NO. ERR(SV)			Setting error	Check the JOB.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1663	WRONG MOTOR GUN PRESS AXIS (SV)			File setting error	Check the gun condition file.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1664	MICRO PRG EXECUTE TIME OVER(SV)		Sub Code: Signifies the axis in which the alarm occurred	EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1665	MICRO PROGRAM SYNC. ERROR (SV)		Sub Code: Signifies the axis in which the alarm occurred	EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1666	FILE RECEIVE INCOMPLETE (SERVO)		Sub Code: Signifies the axis in which the alarm occurred	EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.

Alarm	Alarm Name	Sub	Meaning Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1672	GRP CHANGE PG POWER ON ERR (SV)		Sub Code: Signifies the axis in which the alarm occurred	Setting error	Check the JOB.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1673	GRP CHANGE SERVO ON ERROR (SV)		Sub Code: Signifies the axis in which the alarm occurred	Setting error	Check the JOB.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1674	CTRL LAW SWITCHING ORDER ERR (SV)		Sub Code: Signifies the axis in which the alarm occurred	EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1675	BASE BLOCK READ SIGNAL ERR (SV)		Sub Code: Signifies the axis in which the alarm occurred	EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1676	BASE BLOCK WRITE SIGNAL ERR (SV)		Sub Code: Signifies the axis in which the alarm occurred	EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning Cause	Cause	Remedy
Number		Code			
1681	BRAKE POWER ERROR(SV)			Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • YBK21-CN403 • YPS21-CN153(+24V3)
				Short circuit or ground fault	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. Check the insertion, connection, Short circuit or ground fault of the followings. • YFC22-CN219(81,82,92,93:+24V2U3) • YFC22-CN219(83,84,94,95:024V2) • YIO-CN306,CN307,CN308,CN309
				YBK board failure	Check the power source of YBK21, and then if no fault is found, replace the brake unit.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1682	EXTERNAL BRAKE POWER ERROR(SV)			Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. YBK21-CN404 The external axis brake power supply for brake unit
				Short circuit or ground fault	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. Check the insertion, connection, Short circuit or ground fault of the followings. • YFC22-CN219(81,82,92,93:+24V2U3) • YFC22-CN219(83,84,94,95:024V2) • YIO-CN306,CN307,CN308,CN309
				YBK board failure	Check the external axis brake of YBK21 in the power source, and then if no fault is found, replace the brake unit.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • EAXA21-CN501 to 506 • EAXB21-CN531,532,533 • Amplifier-CN581 • EX1SV(External axis servo pack)-CN591,595
				Module failure (amplifier)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the amplifier.
				Module failure (motor)	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the motor.
				EAXA21 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1687	COORDINATED STOP FUNC. DISABLE			Setting error	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1688	MEMORY DATA FILE STORAGE ERROR	1	Storage file number is inconsistent	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Start index is inconsistent	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1690	PCI BOARD NOT DETECTED			AD board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
1691	FORCE SENSOR BOARD UNMOUNTED			Force sensor board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1692	PG POWER FUSE BLOWN(SV)			Fuse failure	Replace the EAXA21 board fuse(F1).
				EAXA21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1693	UNDEFINED MOTOR GUN ARM CONTROL		Sub Code: Signifies the control group in which the alarm occurred	Setting error	The spot high speed function is enabled despite the invalid status of GUN ARM CONTROL function. Please complete the setting of GUN ARM CONTROL as the following operations. 1. start the system in maintenance mode. 2. change the security to management mode. 3. select [SYSTEM] ->[SETUP] ->[OPTION FUNCTION] ->[GUN ARM CONTROL]. 4. change the mode to PLAYBACK, then push [EXECUTE]. 5. set the [INERTIA] and [FREQ]. 6. select [ENABLE], after the setting the [INERTIA] and [FREQ].
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1694	GROUND FAULT(BRAKE LINE)		Sub Code: Signifies the axis in which the alarm occurred	Short circuit or ground fault	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the brake connection if there is a ground fault or short circuit.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1695	DC 24V POWER SUPPLY FAILURE(SV)			YPS21 unit failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following unit. • YPS21 unit

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1860	M-SAFETY COMMUNICATE ERROR	0	There was no response from Machine-Safety(YSF21) board within the time limit.	Connection failure	Check the connection and insertion of the following boards. • YCP21 board • YIF01 board • YSF21 board
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. After replacing the board, remove the CF card that has been inserted into the YCP21to be removed, insert it the new YCP21.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1	The reset of Machine-Safety alarm was not properly completed.	Connection failure	Check the connection and insertion of the following boards. • YCP21 board • YIF01 board • YSF21 board
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				YCP21 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the YCP21 board.After replacing the board, remove the CF card that has been inserted into the YCP21to be removed, insert it the new YCP21.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		104	CPU1 of YSF21 board detected connection with CH2 of YSF22 board in start up process.	Connection failure	Check the connection of the MII cable between YSF21 board and YSF22 board.
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				YSF22 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF22 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		105	CPU1 of YSF21 board did not detect a response from YSF22 board within a time limit.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following boards. Check the touch of the MII cable between YSF21 board(CN203) and YSF22 board(CN250/CN251).
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				YSF22 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF22 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		112	CPU1 of YSF21 detected bit failure in a communication IC with the I/O board.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following boards. Check the connection of the MII cable between YSF21 board(CN203) and YSF22 board(CN250/CN251).
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				YSF22 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF22 board.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		113	CPU1 of YSF21 detected status failure in a communication IC with the I/O board.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following boards. Check the connection of the MII cable between YSF21 board(CN203) and YSF22 board(CN250/CN251).
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				YSF22 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF22 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		201	CPU2 of YSF21 board did not detect a response from YSF22 board within a time limit.	Connection failure	Check the connection of the MII cable between YSF21 board and YSF22 board. And check if a terminator is connected.
				YSF22 board setting error	Check the rotary switch setting of YSF22 board.
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				YSF22 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF22 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		202	CPU2 of YSF21 board detected an error of communication ASIC.	Connection failure	Check the connection of the MII cable between YSF21 board and YSF22 board. And check if a terminator is connected.
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YSF22 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF22 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		212	CPU2 of YSF21 detected bit failure in a communication IC with the I/O board.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following boards. Check the connection of the MII cable between YSF21 board(CN203) and YSF22 board(CN250/CN251).
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				YSF22 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF22 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		213	CPU2 of YSF21 detected bit failure in a communication IC with the I/O board.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following boards. Check the connection of the MII cable between YSF21 board(CN203) and YSF22 board(CN250/CN251).
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				YSF22 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF22 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1866	M-SAF F-SAFETY COMM ERROR	1	Function Safety did not come by an online mode.	Connection failure	Check the connection of the MII cable between YSF21 board and YSF22 board. And check if a terminator is connected.
				YSF25 board setting error	Check the rotary switch setting of YSF25 board.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		8	Here was no response from Function Safety board within the time limit.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following boards. •Check the connection of the MII cable between YSF21 board(CN203) and YSF25 board(CN250/CN251). And check if a terminator(CN250/CN251) is connected. • Check the connection of a cable between YPS unit(CN155) and EAXA21 board(CN509).
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		9	Here was no response from (Function Safety board within the time limit.	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following boards. •Check the connection of the MII cable between YSF21 board(CN203) and YSF25 board(CN250/CN251). And check if a terminator(CN250/CN251) is connected. • Check the connection of a cable between YPS unit(CN155) and EAXA21 board(CN509).
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		10	Detected rotary switch failure of Function Safety.	YSF25 board setting failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the following settings. • Check the rotary switch of YSF25 board.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Dual Port RAM diagnosis function of Machine Safety detected a failure in start up process.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	Dual Port RAM diagnosis function of Machine Safety detected a failure.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1000	RAM diagnosis function detected a failure.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		20xx	RAM diagnosis function detected a failure. xx indicates where Machine Safety software detected an alarm.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		21xx	RAM diagnosis function detected a failure. xx indicates where Machine Safety software detected an alarm.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1002	Stack diagnosis function of Machine Safety detected a failure in start up process.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1003	Stack diagnosis function of Machine Safety detected a failure in start up process.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1004	Stack diagnosis function of Machine Safety detected a failure in start up process.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1005	Stack diagnosis function of Machine Safety detected a failure in start up process.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1006	Stack diagnosis function of Machine Safety detected a failure in start up process.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode and then contact your Yaskawa representative about occurrence status (operating procedure).
		106	CPU1 of YSF21 board detected an sequence monitoring failure.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode and then contact your Yaskawa representative about occurrence status (operating procedure).
		107	CPU1 of YSF21 board detected an sequence monitoring failure.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode and then contact your Yaskawa representative about occurrence status (operating procedure).
		108	CPU1 of YSF21 board detected an sequence monitoring failure.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode and then contact your Yaskawa representative about occurrence status (operating procedure).
		109	CPU1 of YSF21 board detected an sequence monitoring failure.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode and then contact your Yaskawa representative about occurrence status (operating procedure).
		110	CPU1 of YSF21 board detected an sequence monitoring failure.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		117	CPU1 of YSF21 board detected a processing time monitoring failure.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		118	CPU1 of YSF21 board detected a processing time monitoring failure.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		202	CPU2 of YSF21 board detected an interruption monitoring failure.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		203	CPU2 of YSF21 board detected an sequence monitoring failure.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		204	CPU2 of YSF21 board detected an sequence monitoring failure.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		217	CPU2 of YSF21 board detected an sequence monitoring failure.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		218	CPU2 of YSF21 board detected an sequence monitoring failure.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1872	M-SAF WATCHDOG ERROR	101	CPU1of YSF21 detected an error in start up process.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		102	CPU1of YSF21 detected an error of itself.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		103	CPU1of YSF21 detected an error of CPU2.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		104	CPU1of YSF21 detected an error of CPU2 in start up process.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		201	CPU2of YSF21 detected an error in start up process.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		202	CPU2of YSF21 detected an error of CPU1.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		203	CPU2of YSF21 detected an error of CPU1.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		204	CPU2of YSF21 detected an error of CPU1 in start up process.	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1873	M-SAF OFFLINE MODE SETUP ERROR			Setting error	Please re-configure the setting of the control group in maintenance mode.
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
1874	M-SAF VOLTAGE WATCH ERROR		The CPU1 of YSF21 board has detected an illegal voltage of the CPU2. The number indicates as CPU which detected error, surveillance voltage, and 0001 or 0002 value. 0001:Over voltage 0002:Low voltage	YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board. (3)If the alarm 1860 occurs, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1875	M-SAF I/O BOARD VOLTAGE ERROR		subcode: CPU1 1:CPU1 detected a 5V low voltage CPU1 2:CPU1 detected a 5V high voltage CPU1 3:CPU1 detected a 24V low voltage CPU1 4:CPU1 detected a 24V high voltage CPU1 5:CPU1 detected a voltage error in 24V power of the board. CPU2 1:CPU2 detected a 5V low voltage CPU2 2:CPU2 detected a 5V high voltage CPU2 3:CPU2 detected a 24V low voltage CPU2 4:CPU2 detected a 24V low voltage CPU2 5:CPU2 detected a 24V high voltage CPU2 5:CPU2 detected a voltage error in 24V power of the board.	YSF22 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF22 board.

Alarm	Alarm Name	ne Sub	Meaning	Cause	Remedy
Number		Code			
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1876	M-SAF I/O BOARD WATCHDOG ERROR	101	An error of YSF22 board was detected in startup process by CPU1 of YSF21 board.	YSF22 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF22 board.
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		102	An error in channel 1 of YSF22 board was detected by CPU1 of YSF21 board.	YSF22 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF22 board.
				YSF21 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		103	An error in channel 2 of YSF22 board was detected by CPU1 of YSF21 board.	YSF22 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF22 board.
				YSF21 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the YSF21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		201	An error of YSF22 board was detected in startup process by CPU2 of YSF21 board.	YSF22 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF22 board.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1888	F-SAFE RAM DIAG. ERROR(WT ADDR)			YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1889	F-SAFE OPCODE DIAG. ERROR			YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1890	F-SAFE M-SAFETY COMM ERROR	1	Machine safety did not come by an online mode.	Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • CN203 cable of YSF21board. • CN250/251 cable of YSF25 board. • Terminator is inserted in the CN250 of YSF25 board (last station).
				Setting error	Confirm that the rotary switch on the YSF25[#1-8] board is set to [0-7].
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board. Save the CMOS.BIN before replace the board to be safe.
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		2	Functional safety received an offline command.	Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • CN203 cable of YSF21board. • CN250/251 cable of YSF25 board. • Terminator is inserted in the CN250 of YSF25 board (last station).
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board. Save the CMOS.BIN before replace the board to be safe.
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	There was no response from machine safety board with in the time limit.	Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. CN203 cable of YSF21board. CN250/251 cable of YSF25 board. Terminator is inserted in the CN250 of YSF25 board (last station).
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board. Save the CMOS.BIN before replace the board to be safe.
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code 4	Functional safety board was	Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the
			the sequential number.		following cables and connectors. • CN203 cable of YSF21board. • CN250/251 cable of YSF25 board. • Terminator is inserted in the CN250 of YSF25 board (last station).
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board. Save the CMOS.BIN before replace the board to be safe.
				YSF25 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	Functional safety board detected CRC error.	Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • CN203 cable of YSF21board. • CN250/251 cable of YSF25 board. • Terminator is inserted in the CN250 of YSF25 board (last station).
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board. Save the CMOS.BIN before replace the board to be safe.
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		6	Functional safety board detected sequential number error.	Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • CN203 cable of YSF21board. • CN250/251 cable of YSF25 board. • Terminator is inserted in the CN250 of YSF25 board (last station).
				YSF21 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the YSF21 board. Save the CMOS.BIN before replace the board to be safe.
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	Interrupt signal does not occur from the machine safety board.	Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • CN203 cable of YSF21board. • CN250/251 cable of YSF25 board. • Terminator is inserted in the CN250 of YSF25 board (last station).
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board. Save the CMOS.BIN before replace the board to be safe.
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		8	Communication data error of Machine Safety was detected. (Running number over)	Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • CN203 cable of YSF21board. • CN250/251 cable of YSF25 board. • Terminator is inserted in the CN250 of YSF25 board (last station)
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board. Save the CMOS.BIN before replace the board to be safe.
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		9	Communication data error of Machine Safety was detected. (Running number don't change)	Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. CN203 cable of YSF21board. CN250/251 cable of YSF25 board. Terminator is inserted in the CN250 of YSF25 board (last station)
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board. Save the CMOS.BIN before replace the board to be safe.
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		10	Communication data of CPU1 and CPU2 is mismatch.	Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • CN203 cable of YSF21board. • CN250/251 cable of YSF25 board. • Terminator is inserted in the CN250 of YSF25 board (last station).
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board. Save the CMOS.BIN before replace the board to be safe.
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		11	Allocation requests of safety field bus signal is abnormal.	Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • CN203 cable of YSF21board. • CN250/251 cable of YSF25 board. • Terminator is inserted in the CN250 of YSF25 board (last station).
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board. Save the CMOS.BIN before replace the board to be safe.
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		12	The error of JL098 communication data was detected.	Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. CN203 cable of YSF21board. CN250/251 cable of YSF25 board. Terminator is inserted in the CN250 of YSF25 board (last station)
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board. Save the CMOS.BIN before replace the board to be safe.
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1891	F-SAFE OUTPUT SIGNAL UNMATCH			YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
1892	F-SAFE COND FILE SETTING ERR		Sub Code: Indicates the type of condition file abnormality occurs. 0:Axis range limit function 1:Axis speed monitor function 2:Speed limit function 3:Robot range limit function 4:Tool angle monitor function 5:Tool change monitor function	Setting error	Check condition file that is indicated in the sub code is set correctly.
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
1899	F-SAFE MONITOR EXECUTE TIME OVER			Setting error	(1)Reduce the condition file.
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

DX200 MAINTENANCE MANUAL

(Volume 1)

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Specifications are subject to change without notice for ongoing product modifications and improvements.

YASKAWA ELECTRIC CORPORATION





DX200 MAINTENANCE MANUAL

(Volume 2)

- •Upon receipt of the product and prior to initial operation, read these instructions below thoroughly, and retain for future reference.
- •This instruction consists of "Volume 1" and "Volume 2".

MOTOMAN INSTRUCTIONS

MOTOMAN-□□□ INSTRUCTIONS
DX200 INSTRUCTIONS
DX200 OPERATOR'S MANUAL (for each purpose)
DX200 MAINTENANCE MANUAL (Volume 1) (Volume2)

The DX200 operator's manuals above correspond to specific usage. Be sure to use the appropriate manual. The DX200 maintenance manual above consists of "Volume 1" and "Volume 2".







- This manual explains maintenance procedures of the DX200 system. Read this manual carefully and be sure to understand its contents before handling the DX200.
- General items related to safety are listed in Chapter 1: Safety of the DX200 INSTRUCTIONS. To ensure correct and safe operation, carefully read the DX200 Instructions before reading this manual.



CAUTION

- Some drawings in this manual are shown with the protective covers or shields removed for clarity. Be sure all covers and shields are replaced before operating this product.
- The drawings and photos in this manual are representative examples and differences may exist between them and the delivered product.
- YASKAWA may modify this model without notice when necessary due to product improvements, modifications, or changes in specifications. If such modification is made, the manual number will also be revised.
- If your copy of the manual is damaged or lost, contact a YASKAWA representative to order a new copy. The representatives are listed on the back cover. Be sure to tell the representative the manual number listed on the front cover.
- YASKAWA is not responsible for incidents arising from unauthorized modification of its products. Unauthorized modification voids your product's warranty.

Notes for Safe Operation

Read this manual carefully before maintenance or inspection of the DX200.

In this manual, the Notes for Safe Operation are classified as "DANGER", "WARNING", "CAUTION", "MANDATORY", or "PROHIBITED".



DANGER

Indicates an imminent hazardous situation which, if not avoided, could result in death or serious injury to personnel.



WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury to personnel.



CAUTION

Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury to personnel and damage to equipment. It may also be used to alert against unsafe practices.



Always be sure to follow explicitly the items listed under this heading.



Must never be performed.

Even items described as "CAUTION" may result in a serious accident in some situations. At any rate, be sure to follow these important items.



To ensure safe and efficient operation at all times, be sure to follow all instructions, even if not designated as "DANGER", "WARNING" and "CAUTION".



WARNING

 Before operating the manipulator, check that servo power is turned off when the emergency stop buttons on the front door of the DX200 and programing pendant are pressed.
 When the servo power is turned off, the SERVO ON LED on the programing pendant is turned off.

Injury or damage to machinery may result if the emergency stop circuit cannot stop the manipulator during an emergency. The manipulator should not be used if the emergency stop buttons do not function.

Fig. : Emergency Stop Button



 Once the emergency stop button is released, clear the cell of all items which could interfere with the operation of the manipulator. Then turn the servo power ON.

Injury may result from unintentional or unexpected manipulator motion.

Fig. : Release of EM



TURN

safeguarding.

- Observe the following precautions when performing teaching operations within the P-point maximum envelope of the manipulator:
 - Be sure to use a lockout device to the safeguarding when going inside.
 Also, display the sign that the operation is being performed inside the safeguarding and make sure no one closes the
 - View the manipulator from the front whenever possible.
 - Always follow the predetermined operating procedure.
 - Keep in mind the emergency response measures against the manipulator's unexpected motion toward you.
 - Ensure that you have a safe place to retreat in case of emergency.

Improper or unintended manipulator operation may result in injury.

- Confirm that no person is present in the P-point maximum envelope of the manipulator and that you are in a safe location before:
 - Turning on the power for the DX200.
 - Moving the manipulator with the programming pendant.
 - Running the system in the check mode.
 - Performing automatic operations.

Injury may result if anyone enters the working envelope of the manipulator during operation. Always press an emergency stop button immediately if there are problems.

The emergency stop button is located on the right of the front door of the DX200 and programing pendant.



CAUTION

- Perform the following inspection procedures prior to conducting manipulator teaching. If problems are found, repair them immediately, and be sure that all other necessary processing has been performed.
 - -Check for problems in manipulator movement.
 - -Check for damage to insulation and sheathing of external wires.
- Always return the programming pendant to the hook on the DX200 cabinet after use.

The programming pendant can be damaged if it is left in the P-point maximum envelope of the manipulator, on the floor, or near fixtures.

 Read and understand the Explanation of Warning Labels in the DX200 Instructions before operating the manipulator.

Definition of Terms Used Often in This Manual

The MOTOMAN manipulator is the YASKAWA industrial robot product.

The MOTOMAN usually consists of the controller, the programming pendant, and supply cables.

In this manual, the equipment is designated as follows.

Equipment	Manual Designation
DX200 Controller	DX200
DX200 Programming Pendant	Programming Pendant
Cable between the manipulator and the controller	Manipulator cable

Descriptions of the programming pendant keys, buttons, and displays are shown as follows:

Equipment		Manual Designation
Programming Pendant	Character Keys /Symbol Keys	The keys which have characters or its symbol printed on them are denoted with []. ex. [ENTER]
	Axis Keys /Numeric Keys	[Axis Key] and [Numeric Key] are generic names for the keys for axis operation and number input.
	Keys pressed simultaneously	When two keys are to be pressed simultaneously, the keys are shown with a "+" sign between them, ex. [SHIFT]+[COORD]
	Displays	The menu displayed in the programming pendant is denoted with { }. ex. {JOB}

Description of the Operation Procedure

In the explanation of the operation procedure, the expression "Select •••" means that the cursor is moved to the object item and the SELECT key is pressed, or that the item is directly selected by touching the screen.

Registered Trademark

In this manual, names of companies, corporations, or products are trademarks, registered trademarks, or brand names for each company or corporation. The indications of (R) and TM are omitted.

Explanation of Warning Labels



• The label described below is attached to the manipulator.

Observe the precautions on the warning labels.

Failure to observe this caution may result in injury or damage to equipment.

Fig.: Warning Labels

WARNING Label A:



WARNING Label B:

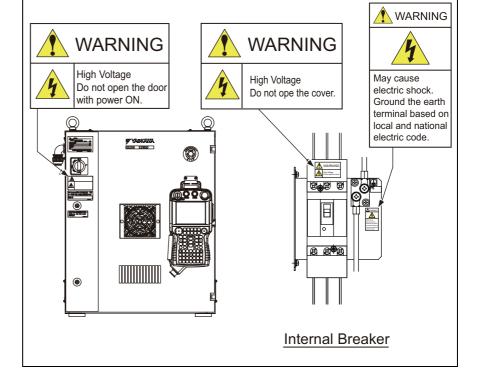


• The following warning labels are attached to DX200.

Observe the precautions on the warning labels.

Failure to observe this warning may result in injury or damage to equipment.

Fig. : Location of Warning Labels



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Alarm Number (4000 to 4999)

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
4000	MEMORY ERROR (TOOL FILE)		Sub Code: Tool number	Data error	(1)Reset the alarm. (2)If the alarm occurs again, initialize the tool file in maintenance mode, and then load the tool file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4001	MEMORY ERROR (USER COORD FILE)		Sub Code: User coordinate number	Data error	(1)Reset the alarm. (2)If the alarm occurs again, initialize the user coordinates file in maintenance mode, and then load the user coordinates file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4002	MEMORY ERROR (SV MON SIGNAL FILE)			Data error	(1)Reset the alarm.(2)If the alarm occurs again, initialize the servo monitor signal file in maintenance mode, and then load the servo monitor signal file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4003	MEMORY ERROR (WEAVING FILE)		Sub Code: Page number	Data error	(1)Reset the alarm.(2)If the alarm occurs again, initialize the weaving condition file in maintenance mode, and then load the weaving condition file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub		Cause	Remedy
		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4010	MEMORY ERROR (COM-ARC COND FILE)		Sub Code: Page number	Data error	(1)Reset the alarm.(2)If the alarm occurs again, initialize the COM-ARC condition file in maintenance mode, and then load the COM-ARC condition file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4012	MEMORY ERROR (LINK SERVOFLOAT)		Sub Code: Condition file number	Data error	(1)Reset the alarm.(2)If the alarm occurs again, initialize the link servo float condition file in maintenance mode, and then load the link servo float condition file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	n Name Sub	Meaning Cause	Cause	Remedy
		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4017	MEMORY ERROR (POWER SRC USER- DEF)			Data error	(1)Reset the alarm.(2)If the alarm occurs again, initialize the Power Source user definition file in maintenance mode, and then load the Power Source user definition file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4018	MEMORY ERR (LADDER PRG FILE)			Data error	(1)Reset the alarm.(2)If the alarm occurs again, initialize the ladder program file in maintenance mode, and then load the ladder program file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4021	MEMORY ERROR (CONVEYOR COND FILE)			Data error	(1)Reset the alarm.(2)If the alarm occurs again, initialize the conveyor condition file in maintenance mode, and then load the conveyor condition file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4022	MEMORY ERROR (PAINT SPECIAL FILE)		Sub Code: Page number	Data error	(1)Reset the alarm.(2)If the alarm occurs again, initialize the paint special file in maintenance mode, and then load the paint special file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm	Alarm Name	Sub	ub Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4023	MEMORY ERROR (PAINT COND FILE)		Sub Code: Page number	Data error	(1)Reset the alarm.(2)If the alarm occurs again, initialize the paint condition file in maintenance mode, and then load the paint condition file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4024	MEMORY ERR (WRIST WEAV AMP FILE)			Data error	(1)Reset the alarm.(2)If the alarm occurs again, initialize the wrist weaving amplitude file in maintenance mode, and then load the wrist weaving amplitude file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Name Sub Code	Meaning Cause	Cause	Remedy
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4025	MEMORY ERROR (INTERRUPT JOB FILE)			Data error	(1)Reset the alarm. (2)If the alarm occurs again, initialize the interrupt job file in maintenance mode, and then load the interrupt job file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4028	MEMORY ERR (SENSOR MON COND FILE)			Data error	(1)Reset the alarm.(2)If the alarm occurs again, initialize the sensor monitoring condition file in maintenance mode, and then load the sensor monitoring condition file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4036	MEMORY ERROR (WEARING FILE)		Sub Code: File number	Data error	(1)Reset the alarm.(2)If the alarm occurs again, initialize the wear amount file in maintenance mode, and then load the wear amount file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4037	MEMORY ERROR (STROKE POSITION)		Sub Code: File number	Data error	(1)Reset the alarm.(2)If the alarm occurs again, initialize the FULL/SHORT OPEN position setting file in maintenance mode, and then load the FULL/SHORT OPEN position setting file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4040	MEMORY ERROR (SHOCK LEVEL FILE)		Sub Code: File number	Data error	(1)Reset the alarm.(2)If the alarm occurs again, initialize the shock level file in maintenance mode, and then load the shock level file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4041	MEMORY ERROR (SPOT IO ALLOCTE FL)		Sub Code: File number	Data error	(1)Reset the alarm.(2)If the alarm occurs again, initialize the spot I/O allocation file in maintenance mode, and then load the spot I/O allocation file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4050	MEMORY ERR (AXIS I/O ALLOC FILE)			Data error	(1)Reset the alarm. (2)If the alarm occurs again, initialize the axis motion I/O allocation file in maintenance mode, and then load the axis motion I/O allocation file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4051	MEMORY ERR (GUN COND. AUX. FILE)		Sub Code: File number	Data error	(1)Reset the alarm. (2)If the alarm occurs again, initialize the gun characteristics auxiliary file in maintenance mode, and then load the gun characteristics auxiliary file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code		other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4056	MEMORY ERROR (PLUG VOLUME FILE)		Sub Code: File number	Data error	(1)Reset the alarm.(2)If the alarm occurs again, initialize the painting filling file in maintenance mode, and then load the painting filling file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4057	MEMORY ERROR (EVB GUN COND)		Sub Code: File number	Data error	(1)Reset the alarm.(2)If the alarm occurs again, initialize the EVB gun condition file in maintenance mode, and then load the EVB gun condition file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4064	MEMORY ERR (WEAV SYNC WELD FILE)			Data error	 (1)Reset the alarm. (2)If the alarm occurs again, initialize the weaving synchronizing welding condition file in maintenance mode, and then load the weaving synchronizing welding condition file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4065	MEMORY ERROR (I/F PANEL FILE)			Data error	(1)Reset the alarm.(2)If the alarm occurs again, initialize the I/F panel file in maintenance mode, and then load the I/F panel file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4071	MEMORY ERROR (LASER TRACKING END FILE)			Data error	(1)Reset the alarm.(2)If the alarm occurs again, initialize the laser tracking welding end file in maintenance mode, and then load the laser tracking welding end file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4072	MEMORY ERROR (LASER TRACKING TRACK START FILE)			Data error	(1)Reset the alarm.(2)If the alarm occurs again, initialize the laser tracking track start file in maintenance mode, and then load the laser tracking track start file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4075	MEMORY ERROR (CONDITION FILE OF CORRESPONDING TO LASER TRACKING GAP)			Data error	(1)Reset the alarm. (2)If the alarm occurs again, initialize the condition file of corresponding to laser tracking gap in maintenance mode, and then load the condition file of corresponding to laser tracking gap saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4080	MEMORY ERR (MUTUAL WAIT SET FILE)			Data error	(1)Reset the alarm.(2)If the alarm occurs again, initialize the mutual wait set file in maintenance mode, and then load the mutual wait set file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
4083	INTERF. PREDICT COMM ERROR	3	SubCode 0000_0000_0000_0010:DX20 0 received an error response from the interference predict server. 0001_0000_0000_0001:No response for the interference check start request was returned from the interference predict server. 0001_0000_0000_0010:No response for the current position acquisition request was returned from the interference predict server. 0001_0000_0000_0011:DX20 0 received an error response for the interference check start request from the interference predict server.	Connection failure	(1)Reset the alarm. (2)Check the connection between interference predict server and DX200.
				Setting error	(1)Reset the alarm.(2)Check each network setting for the robot controller and the interference predict server.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
4084	ROBOT SYNC. ERROR		SubCode 0000_0000_0000_0001:No response was returned from the mutual wait target. 0000_0000_0000_0010:An error occurred in the communication with the mutual wait target during the execution of FN591. 0000_0000_0000_0011:An error occurred in the communication with the mutual wait target during the execution of FN591. 0000_0000_0000_0100:FN59 1 execution cancel was received even though FN591 execution notice hadn't been received from the mutual wait target. 0000_0000_0000_0101:FN59 1 execution cancel error from the mutual wait target was received. 0000_0000_0001_0000:The mutual wait manipulator No. of the FN591 is abnormal. 0000_0000_0010_0000:FN59 1 was doubly executed. 0000_0000_0011_0000:FN59 1 execution notice from the mutual wait target was received doubly.	Connection failure	SubCode 0000_0000_0000_0001 0000_0000_0000_0010 0000_0000_0000_0101 0000_0000_0000_0101 0000_0000_0011_00000 0000_0000_0110_0000 (1)Reset the alarm. (2)Check the communication connection with the mutual wait target.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4084	ROBOT SYNC. ERROR		0000_0000_0100_0000:FN59 1 execution notice error from the mutual wait target was received.	Connection failure	SubCode 0000_0000_0000_0001 0000_0000_0000_0010 0000_0000_0000_0011 0000_0000_0000_0100 0000_0000_0000_0101 0000_0000_0011_0000 0000_0000_0100_0000 (1)Reset the alarm. (2)Check the communication connection with the mutual wait target.
				HUB failure	SubCode 0000_0000_0000_0001 0000_0000_0000_0
				Setting error	SubCode 0000_0000_0000_0001 (1)Reset the alarm. (2)Check the contents of the mutual wait setting file. (3)Check the network setting of the mutual wait target.
				Operation mistake	SubCode 0000_0000_0000_0100 0000_0000_0000_0101 (1)Reset the alarm. (2)Check if FN591execution is aborted when FN591 execution has been mutually established. In this case, this alarm may occur due to communication time lag.
				Setting error	SubCode 0000_0000_0001_0000 (1)Reset the alarm. (2)Check the mutual wait manipulator No. of the FN591.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4087	MEMORY ERROR (YSF TMR FILE)			Data error	(1)Reset the alarm.(2)If the alarm occurs again, initialize the ysf timer file in maintenance mode, and then load the ysf timer file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4088	MEMORY ERROR (YSF LOGIC FILE)			Data error	(1)Reset the alarm.(2)If the alarm occurs again, initialize the ysf logic file in maintenance mode, and then load the ysf logic file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4099	DC 24V POWER SUPPLY FAILURE (YPS)			YPS21 unit failure	(1)Reset the alarm. (2)If the alarm occurs again, turn the power OFF then back ON. (3)If the alarm occurs again, replace the following unit. • YPS21 unit
				Short circuit or ground fault	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. Check the insertion, connection, Short circuit or ground fault of the followings. • YFC22-CN219(81,82,92,93: +24V2U3) • YFC22-CN219(83,84,94,95: 024V2) • YIO-CN306,CN307,CN308,CN309
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4102	SYSTEM DATA HAS BEEN CHANGED			System data changed	(1)Reset the alarm. (2)Turn the power OFF then back ON before turning ON the servo power supply.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4103	PARALLEL START INSTRUCTION ERROR	1	Sub task being executed: Although a job is being executed by instructed sub task, an attempt was made to execute another job by the sub task.	Setting error	(1)Reset the alarm. (2)Check if other JOB has been already executed in the same task which is used in the PSTART. If same task need to be executed in series, add PWAIT to confirm if the previous task end.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Group axis being used: The job operated by another sub task uses the same group axis.	Setting error	(1)Reset the alarm. (2)Check if the control group of the JOB which is used in the PSTART has been already executed in other task. If the same group need to be executed in series, add PWAIT to confirm if the other task end.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	Multiple start of same job: The job that was tried to be started was executed by another sub task.	Setting error	(1)Reset the alarm.(2)Check if the JOB which is used in the PSTART has been already executed in other task. If the same job need to be executed in series, add PWAIT to confirm if the other task end.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	Unregistered master job: Although the master job was not registered, an attempt was made to execute PSTART SUB (job name omitted).	Setting error	(1)Reset the alarm.(2)Check the following settings.The master job of the subtask is registered
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	Synchronization instruction error: When restarted by PSTART, synchronization instruction status of the sub task under interruption was different from the status to restart.	Setting error	 (1)Reset the alarm. (2)Check the following settings. • The job to be started • The execution timing for start command

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	Stopped by an alarm: An attempt was made to start the sub task which is stopped by an alarm.	Setting error	(1)Check the following settings. • Alarm occurrence status
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	Synchronization task specification of SYNC instruction omit error	Setting error	(1)Reset the alarm.(2)Check the following setting.Synchronization task specification of SYNC instruction
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	The task is specified by synchronization task of SYNC instruction.	Setting error	 (1)Reset the alarm. (2)Check the following setting. Synchronization task specification of SYNC instruction It is not possible to set the same task to the SYNC as the sub task of PSTART instruction.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		9	I/O jog being executed	Setting error	 (1)Reset the alarm. (2)Check the following setting. I/O jog executing status Complete the I/O jog execution, and then restart.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		18	Sub task to be set PSTART has been already executed.	Setting error	 (1)Reset the alarm. (2)Check the following settings. The subtask is completed by the PWAIT instruction. The execution timing for start command
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4104	WRONG EXECUTION OF LOAD INST		Sub Code1 to 245: Signifies the data transmission error.	Setting error	* Refer to the instruction manual for Data Transmission Function for details.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4105	WRONG EXECUTION OF SAVE INST		Sub Code1 to 245: Signifies the data transmission error.	Setting error	* Refer to the instruction manual for Data Transmission Function for details.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4106	WRONG EXECUTION OF DELETE INST		Sub Code1 to 245: Signifies the data transmission error.	Setting error	* Refer to the instruction manual for Data Transmission Function for details.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4107	OUT OF RANGE (ABSO DATA)		Sub Code: Signifies the axis in which the alarm occurred	Setting error	 (1)Reset the alarm. (2)Check the following settings. • Move the manipulator or station to the zero position by the axis operation and check the home position alignment marks (the arrow).
				Blown fuse	If AL1962 "EAXA21 board failure" occurred simultaneously with this alarm, Replace the fuse(F1) in the EAXA21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4109	DC 24V POWER SUPPLY FAILURE (I/O)		0000_0000_0000_0001: Detector circuit error. 0000_0000_0000_0010: Fuse blown (YIO board) 0000_0000_0000_0011: External 24V power supply error.	Connection failure	 (1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. Check the insertion and connection of the followings. CN303 of YIO board Fuse (blown) of YIO board The communications cable for the I/O module
				Voltage error	(1)Reset the alarm.(2)If the alarm occurs again, Check the 24V external power supply. If abnormal, replace the 24V external power supply.
				YIO board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIO board. Save the CMOS.BIN before replacing the board to be safe.
				Short circuit or ground fault	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. Check the insertion, connection, Short circuit or ground fault of the followings. • YFC22-CN219(81,82,92,93:+24V2U3) • YFC22-CN219(83,84,94,95:024V2) • YIO-CN306,CN307,CN308,CN309
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4110	SHOCK SENSOR ACTION			Shock sensor activated	Shock sensor is activated. Select "OVERRUN&SHOCK SENSOR" under sub menu "ROBOT" to reset the sensor. After that, perform avoidance movement by jog operation.
				Fuse failure	(1)Reset the alarm.(2)If the alarm occurs again, check the connection of the fuse of YSF22 board and then turn the power ON again.
				Connection failure	 (1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. YSF22 board-CN216, CN218 EAXA21 board CN512

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		2	Reception timeout (timer B)	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the communication setting and communication wiring is correct.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	Heading length is too short.	Setting error	(1)Reset the alarm. (2)If the alarm occurs again, send EOT code to release the data link and then check that the sending side data is correctly set. (3)Check that the communication setting is correct.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	Heading length is too long.	Setting error	(1)Reset the alarm. (2)If the alarm occurs again, send EOT code to release the data link and then check that the sending side data is correctly set. (3)Check that the communication setting is correct.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	The header No. error	Setting error	(1)Reset the alarm. (2)If the alarm occurs again, send EOT code to release the data link and then check that the sending side data is correctly set. (3)Check that the communication setting is correct.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	The text length exceeded 256 characters.	Setting error	(1)Reset the alarm. (2)If the alarm occurs again, send EOT code to release the data link and then check that the sending side data is correctly set. (3)Check that the communication setting is correct.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		7	Illegal data received	Setting error	(1)Reset the alarm. (2)If the alarm occurs again, send EOT code to release the data link and then check that the sending side data is correctly set. (3)Check that the communication setting is correct.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4114	TRANSMISSION HARDWARE ERROR	1	Overrun error	Communication error	(1)Reset the alarm.(2)If the alarm occurs again, check the communication setting and communication wiring is correct.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Parity error	Communication error	(1)Reset the alarm.(2)If the alarm occurs again, check the communication setting and communication wiring is correct.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	Framing error	Communication error	(1)Reset the alarm.(2)If the alarm occurs again, check the communication setting and communication wiring is correct.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	Transmission timeout (timer A)	Communication error	(1)Reset the alarm.(2)If the alarm occurs again, check the communication setting and communication wiring is correct.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	Transmission timeout (timer B)	Communication error	(1)Reset the alarm.(2)If the alarm occurs again, check the communication setting and communication wiring is correct.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				Cooling fan failure	(1)Reset the alarm. (2)Replace the in-panel cooling fan. Check the connection between manipulator and servo board. * Move the manipulator to safety place in teach mode.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	The EAXA21 / EAXB21 board # 3 generates an alarm.	Connection failure	(1)Reset the alarm.(2)If the alarm occurs again, check fan power line if there is a ground fault or short circuit.
				Setting error	 (1)Reset the alarm. (2)Check the following settings. (After cancellation of the short-circuit and ground fault) Turn ON the circuit protector.
				Cooling fan failure	(1)Reset the alarm. (2)Replace the in-panel cooling fan. Check the connection between manipulator and servo board. * Move the manipulator to safety place in teach mode.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	The EAXA21 / EAXB21 board # 4 generates an alarm.	Connection failure	(1)Reset the alarm.(2)If the alarm occurs again, check fan power line if there is a ground fault or short circuit.
				Setting error	 (1)Reset the alarm. (2)Check the following settings. (After cancellation of the short-circuit and ground fault) Turn ON the circuit protector.
				Cooling fan failure	(1)Reset the alarm. (2)Replace the in-panel cooling fan. Check the connection between manipulator and servo board. * Move the manipulator to safety place in teach mode.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
4121	COOLING FAN1 ERROR		Sub Code 1to 8: Signifies the EAXA/EAXB board No. in which the alarm occurred	Cooling fan failure	(1)Reset the alarm. (2)Replace the cooling fan of manipulator. Check the wiring from a manipulator to a servo board. * Move the manipulator to the safe position in the teach mode.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4122	COOLING FAN2 ERROR		Sub Code 1to 8: Signifies the EAXA/EAXB board No. in which the alarm occurred	Cooling fan failure	 (1)Reset the alarm. (2)Replace the cooling fan of manipulator. Check the wiring from a manipulator to a servo board. * Move the manipulator to the safe position in the teach mode.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4123	COOLING FAN3 ERROR		Sub Code 1to 8: Signifies the EAXA/EAXB board No. in which the alarm occurred	Cooling fan failure	Replace the cooling fan of manipulator. Check the wiring from a manipulator to a servo board. * Move the manipulator to the safe position in the teach mode.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4124	WRONG EXECUTION OF VISION INST	1	The specified file number is incorrect.	Setting error	(1)Reset the alarm.(2)Check the following settings.File No.Specify the correct file number.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	The specified file set value is incorrect.	Setting error	(1)Check the following settings. • File set value Specify the set value.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		3	Calibration could not be executed.	Setting error	 (1)Reset the alarm. (2)Check the following settings. The robot coordinate data or the pixel coordinate data used for the calibration The user variable number in the calibration file Set the robot coordinate data and the pixel coordinate data used for the calibration to the user variable. Correctly set the user variable number in the calibration file.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	The communication port for the vision system could not be initialized.	Setting error	 (1)Reset the alarm. (2)Check the following settings. • The Parameter for vision communication port. (3)Set the correct parameters for the communication port.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	Time-out occurred during data transmission.	Setting error	(1)Reset the alarm.(2)Check the following settings.The communication setting of vision system
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection of the following cables. • Cable between vision system and DX200 system
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	Time-out occurred during data reception.	Setting error	(1)Reset the alarm.(2)Check the following settings.The communication setting of vision system
				Connection failure	(1)Reset the alarm.(2)If the alarm occurs again, check the connection of the following cables.Cable between vision system and DX200 system

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	The data received from the vision system is incorrect.	Setting error	 (1)Reset the alarm. (2)Check the following settings. The communication setting of vision system The detection setting of vision system
				Connection failure	(1)Reset the alarm.(2)If the alarm occurs again, check the connection of the following cables.Cable between vision system and DX200 system
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	The pixel coordinates value was not able to be converted into the robot coordinates.	Setting error	(1)Reset the alarm.(2)Check the following settings.The communication setting of vision systemCalibration file for use
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		9	Failed to read or write the position type variable (P variable).	Setting error	 (1)Reset the alarm. (2)Check the following settings. Usage status of the specified position type variable Don't use the specified positional type variable at the same time in other jobs.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		10	Use memory is lacking and the area could not be obtained.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		11	The setting value of measurement item (FT) is incorrect.	Setting error	(1)Reset the alarm. (2)Correct the setting value of a measurement item.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		12	The data for the vision execution command is incorrect.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		48	The number of waiting commands sent by Vision sensor exceeded the limit.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)Check the command sent by Vision sensor (3)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4125	TRANS ERROR (WELD PULSE COND)	1	File access error	Communication error	(1)Reset the alarm.(2)If the alarm occurs again, check the communication setting and communication wiring is correct.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	File data error	Communication error	(1)Reset the alarm.(2)If the alarm occurs again, check the setting of communication or file data is correctly set.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	Calibration execution error	Communication error	(1)Reset the alarm. (2)If the alarm occurs again, check the setting of communication or transmission side data is correctly set.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	The source job cannot be edited.	Setting error	 (1)Reset the alarm. (2)Check the following setting. The prohibit status of source job If the source job is protected from editing, it cannot be edited.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	The converted job cannot be edited.	Setting error	 (1)Reset the alarm. (2)Check the following settings. The prohibit status of converted job If the converted job is protected from editing, it cannot be edited.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	The memory area for job area is insufficient.	Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete unused jobs. (3)If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. In that case, delete the unused jobs. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	The source job is not exist.	Setting error	(1)Check the following settings.Presence of the specified source jobThe job which does not exist cannot be set to the source job.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		7	The memory area for position data of the job is insufficient.	Software operation error occurred	(1)Reset the alarm. (2)when the error occurs again, if there is an unnecessary teaching position, delete it. (3)If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. In that case, delete the unused jobs. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	The job under execution is specified as the conversion job.	Setting error	 (1)Reset the alarm. (2)Check the following settings. Execution status of the source job Execution status of the converted job The job under execution is specified for the source / converted job. Execute conversion operation after ending the job execution.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4127	U-AXIS TIMING BELT BLOWN		Sub Code: XY X: Servo board (SV#X) Y: Power-ON unit (TU#Y)	Belt blown	(1)Reset the alarm. (2)Replace the timing belt of the manipulator. Check the connection between manipulator and servo board. * Move the manipulator to safety place in teach mode.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4128	ARC MONITOR ERROR	1	Monitor ON was executed in Monitor ON.	Setting error	(1)Reset the alarm.(2)Check the following settings.Arc monitor ON statusArc monitor ON cannot be executed during arc monitor ON.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		2	An error occurred when the re-initialization response was received in the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
		3	The incomplete task of re- initialization was unsuccessfully completed in the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
		4	An error occurred when the semaphore for re-initialization was received in the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
		5	An error occurred when the re-initialization mail was sent in the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		9	Receiving data size error occurred in the re-initialization response receiving process of the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
		30	An error occurred in the Web server task mail receiving process of the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
		31	An error occurred in the FTP server task mail receiving process of the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
		32	An error occurred in the FTP client task mail receiving process of the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
		54	The transmission request without data was received in the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
		55	The transmission request of illegal data length was received in the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
		60	Illegal mail data ware received in the DNS task of the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		61	Illegal mail data was transmitted in the DNS task of the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
		100	An error occurred in storing process of memory which is used in the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
		101	An error occurred in the buffer for request to write PCI getting process of the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
		200	The socket of the Ethernet function was full and was not able to create a socket.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		3	Illegal data were received in the UDP process of the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
		4	Transmission error occurred in the UDP process of the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
		5	The SELECT operation was not successfully completed in the UDP process of the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
		100	The re-initialization notification of illegal data length was received in the UDP process of the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
		101	The re-initialization notification of illegal data was received in the UDP process of the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
		102	The PCI write process was not successfully completed in the UDP process of the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
		103	The transmission request of illegal data length was received in the UDP process of the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
		4	An error occurred in the connection detection checking process of TCP server of the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
4134	COOLING FAN SET ABNORMAL	0		Setting error	 (1)Reset the alarm. (2)Check the following settings. Confirm parameter SVS and S2C for the cooling fan. Open the front panel to refer to the parameter list on the back.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4135	TOYOPUC RUN STOP	0		Setting error	(1)Reset the alarm.(2)Check the following settings.Use the PCwin, etc. to run the TOYOPUC.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4136	TOYOPUC MAJOR ERROR	0	The PCI bus state of the TOYOPUC turns to "ER".	Setting error	 (1)Reset the alarm. (2)Check the following settings. • OFF/ON status of the remote • OFF/ON status of the power supply Turn OFF and back ON the remote or power supply.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
		2	The error on setting of time- out value occurred in the SNTP process of the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
		3	The error on setting of reference interval value occurred in the SNTP process of the Ethernet function.	Software operation error occurred	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
		4	The IP address error occurred in the SNTP process of the Ethernet function.	Setting error	 (1)Check the following settings. The IP address of the SNTP server The DHCP server operation (If the DHCP is used) The network status (If the DHCP is used)
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	Illegal parameters were found in the SNTP process of the Ethernet function.	Setting error	(1)Check the following settings. • SNTP setting
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		9	The SNTP process of the Ethernet function was not successfully completed.	Setting error	(1)Check the following settings. • SNTP setting
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		10	The name resolution error occurred in the SNTP process of the Ethernet function.	Setting error	 (1)Check the following settings. • The IP address of the SNTP server • The DHCP server operation *If the DHCP is used • The network status *If the DHCP is used
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4145	RELAY NO. ERROR (LADDER PROGRAM)	0	There is invalid relay number in the SYSTEM LADDER.	Setting error	(1)Save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1	There is invalid relay number in the USER LADDER.	Setting error	(1)Set the security to management mode and compile the ladder program. If any error occurs, modify the invalid relay number to complete the compiling. Valid range General Input:00010 to 05127 General Output:10010 to 15127 External Input:20010 to 25127 External Output:30010 to 35127 Specific Input:40010 to 41607 Specific Output:50010 to 53007 I/F Panel Input:60010 to 60647 Auxiliary Relay:70010 to 79997 Control Input:80010 to 81287 Pseudo Input:82010 to 82207 Network Input:27010 to 29567 Network output:37010 to 39567
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4146	ENCDR PWR CIRCUIT PROTECTOR TRIP	1	Sub Code 1to 8: Signifies the EAXA/EAXB board No. in which the alarm occurred	Incorrect setting	(1)Check the following settings.Turn ON the circuit protector.
				Short circuit or ground fault	(1)Turn the power OFF then back ON.(2)If the alarm occurs again even after turning ON the circuit protector, check encoder power line if there is a ground fault or short circuit.
				Unit failure	Replace the motor or encoder to which the power is supplied.
				Parts failure	Replace the circuit protector.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				Parts failure	Replace the circuit protector.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	Sub Code 1to 8: Signifies the EAXA/EAXB board No. in which the alarm occurred	Incorrect setting	(1)Check the following settings. • Turn ON the circuit protector.
				Short circuit or ground fault	(1)Turn the power OFF then back ON. (2)If the alarm occurs again even after turning ON the circuit protector, check encoder power line if there is a ground fault or short circuit.
				Unit failure	Replace the motor or encoder to which the power is supplied.
				Parts failure	Replace the circuit protector.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4152	TIMING BELT BLOWN	1	The EAXA21 / EAXB21 board # 1 generates an alarm.	Manipulator timing belt is blown.	Move the manipulator in teach mode to the position where there is no torque on the driving belt. (1) Check the timing belt tension. (2) Check the wiring between manipulator and the machine safety unit (YSF22 board).
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	The EAXA21 / EAXB21 board # 2 generates an alarm.	Manipulator timing belt is blown.	Move the manipulator in teach mode to the position where there is no torque on the driving belt. (1) Check the timing belt tension. (2) Check the wiring between manipulator and the machine safety unit (YSF22 board).
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub Code	Meaning	Cause	Remedy
Number					
		7	The EAXA21 / EAXB21 board # 7 generates an alarm.	Manipulator timing belt is blown.	Move the manipulator in teach mode to the position where there is no torque on the driving belt. (1) Check the timing belt tension. (2) Check the wiring between manipulator and the machine safety unit (YSF22 board).
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	The EAXA21 / EAXB21 board # 8 generates an alarm.	Manipulator timing belt is blown.	Move the manipulator in teach mode to the position where there is no torque on the driving belt. (1) Check the timing belt tension. (2) Check the wiring between manipulator and the machine safety unit (YSF22 board).
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4153	COOLING UNIT ERROR	1	The EAXA21 / EAXB21 board # 1 generates an alarm.	Unit failure	Refer to the instruction manuals for the cooling unit in use.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	The EAXA21 / EAXB21 board # 2 generates an alarm.	Unit failure	Refer to the instruction manuals for the cooling unit in use.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	The EAXA21 / EAXB21 board # 3 generates an alarm.	Unit failure	Refer to the instruction manuals for the cooling unit in use.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	The EAXA21 / EAXB21 board # 4 generates an alarm.	Unit failure	Refer to the instruction manuals for the cooling unit in use.

Alarm	Alarm Name	Name Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	The EAXA21 / EAXB21 board # 5 generates an alarm.	Unit failure	Refer to the instruction manuals for the cooling unit in use.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	The EAXA21 / EAXB21 board # 6 generates an alarm.	Unit failure	Refer to the instruction manuals for the cooling unit in use.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	The EAXA21 / EAXB21 board # 7 generates an alarm.	Unit failure	Refer to the instruction manuals for the cooling unit in use.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	The EAXA21 / EAXB21 board # 8 generates an alarm.	Unit failure	Refer to the instruction manuals for the cooling unit in use.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4154	COOLING FAN ERROR (DOOR)	1	The EAXA21 / EAXB21 board # 1 generates an alarm.	Connection failure	(1)Reset the alarm.(2)Check the connection and insertion of the cable and connector for the cooling fan.
				Power voltage drop	(1)Reset the alarm.(2)Check if the primary power voltage is normal.
				Dirt	(1)Reset the alarm. (2)Clean the cooling fan and the fan duct.
				Unit failure	(1)Reset the alarm. (2)Replace the malfunctioning cooling fan with a new one.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				Short circuit or ground fault	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, check a short circuit or ground fault has not occurred in external 24V power line.
				Rated capacity over	Check the capacity of external 24V power supply
				Connection failure	 (1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. • No.3,4 of CN806 in the YFL unit.
				Unit failure	Replace the External 24V power supply unit.
				Parts failure	Replace the circuit protector.
				Unit failure (YFL)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YFL unit.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4163	CIRCUIT TRIPPED (QFVOUT)		Sub Code: Signifies the YFL unit number in which the alarm occurred.	Incorrect setting	Check if the circuit protector is turned on.
				Short circuit or ground fault	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, check a short circuit or ground fault has not occurred in external 24V power line.
				Rated capacity over	Check the capacity of external 24V power supply
				Connection failure	 (1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. • No.5,6 of CN806 in the YFL unit.
				Unit failure	Replace the External 24V power supply unit.
				Parts failure	Replace the circuit protector.
				Unit failure (YFL)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YFL unit.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				Parts failure	Replace the circuit protector.
				Unit failure (YFL)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YFL unit.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4166	CIRCUIT TRIPPED (QFTD1)		Sub Code: Signifies the YFL unit number in which the alarm occurred.	Incorrect setting	Check if the circuit protector is turned on.
				Parts failure	Replace the circuit protector.
				Connection failure	 (1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. • No.11,12 of CN806 in the YFL unit.
				Unit failure (YFL)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YFL unit.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4167	CIRCUIT TRIPPED (OPTION:1)		Sub Code: Signifies the YFL unit number in which the alarm occurred.	Incorrect setting	Check if the circuit protector is turned on.
				Parts failure	Replace the circuit protector.
				Connection failure	 (1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. • No.13,14 of CN806 in the YFL unit.
				Unit failure (YFL)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YFL unit.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4187	FUSE BLOWN (BRAKE:5)		Sub Code: Signifies the YFL unit number in which the alarm occurred.	Blown fuse	Replace the fuse(F15) in the YFL unit.
				Short circuit or ground fault	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, check a short circuit or ground fault has not occurred in brake line.
				Parts failure	Replace the fuse(F15) in the YFL unit.
				Unit failure (YFL)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YFL unit.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4188	FUSE BLOWN (BRAKE:6)		Sub Code: Signifies the YFL unit number in which the alarm occurred.	Blown fuse	Replace the fuse(F16) in the YFL unit.
				Short circuit or ground fault	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, check a short circuit or ground fault has not occurred in brake line.
				Parts failure	Replace the fuse(F16) in the YFL unit.
				Unit failure (YFL)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YFL unit.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4189	FUSE BLOWN (BRAKE:7)		Sub Code: Signifies the YFL unit number in which the alarm occurred.	Blown fuse	Replace the fuse(F17) in the YFL unit.
				Short circuit or ground fault	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, check a short circuit or ground fault has not occurred in brake line.
				Parts failure	Replace the fuse(F17) in the YFL unit.
				Unit failure (YFL)	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YFL unit.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		Jour		other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4201	SYSTEM ERROR (JOB)	-1	An error occurred during the access to a job in parameter specifications.	Software operation error occurred	Reset the alarm, and then try again.
				YIF01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP21 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-2	Access time exceeded the limit during the access to a job.	Software operation error occurred	Reset the alarm, and then try again.
				YIF01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP21 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-8	An attempt was made to change the contents for the job prohibited from being edited.	Setting error	(1)Check the following settings. • Release the prohibition.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-9	An error occurred during the access to a job in handle value.	Software operation error occurred	Reset the alarm, and then try again.
				YIF01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP21 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-10	An error occurred in job data control system.	Software operation error occurred	Reset the alarm, and then try again.
				YIF01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-13	A job specified at job search did not exist in the memory.	Software operation error occurred	Reset the alarm, and then try again.
				YIF01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP21 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-14	There was an instruction that did not exist in a job because of inconsistency of the system software.	Software operation error occurred	Reset the alarm, and then try again.
				YIF01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP21 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		-16	Unused handles were lacking when an attempt was made to open a job.	Software operation error occurred	Reset the alarm, and then try again.
				YIF01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP21 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-18	The number of instructions added to a job exceeded 9999.	Setting error	(1)Check the following settings.Delete unnecessary instructions and add new instructions again.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-19	The number of steps added to a job exceeded 999.	Setting error	(1)Check the following settings. Delete unnecessary steps and add new steps again.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-22	Job information was not able to be expanded.	Software operation error occurred	Reset the alarm, and then try again.
				YIF01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-25	Failed to read the cluster information.	Software operation error occurred	Reset the alarm, and then try again.
				YIF01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP21 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-26	Heap area could not be obtained.	Software operation error occurred	Reset the alarm, and then try again.
				YIF01 board failure	(1)Reset the alarm, and then try again.(2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP21 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-90	The configuration data is damaged.	Software operation error occurred	Reset the alarm, and then try again.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YCP21 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4202	SYSTEM ERROR (JOB)	1	An error occurred in parameter specifications for the access to a job.	Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (3)If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Access time exceeded the limit during the access to a job.	Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (3)If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	Unapproved characters are used for a job name.	Software operation error occurred	 (1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (3)If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		8	An attempt was made to change the contents for the job prohibited from being edited.	Setting error	(1)Check the following settings.Setting of EDIT LOCK in JOB header screenIf the job is protected from editing, release the prohibition.
				Software operation error occurred	 (1)Reset the alarm. (2)If you edit this job, release the prohibition. (3)If the error occurs again, delete the job where the alarm occurred. (4)If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. (5)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		9	An attempt was made to change the contents for the job prohibited from being edited.	Setting error	(1)Check the following settings.Setting of EDIT LOCK in JOB header screenIf the job is protected from editing, release the prohibition.
				Software operation error occurred	(1)Reset the alarm. (2)If you edit this job, release the prohibition. (3)If the error occurs again, delete the job where the alarm occurred. (4)If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. (5)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
		14	There was an instruction that did not exist in a job because of inconsistency of the system software.	Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (3)If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		16	Unused handles were lacking when an attempt was made to open a job.	Setting error	(1)Check the following settings.The number of call job stacksSet the job configuration that decreases the number of call job stacks.
				Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (3)If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		18	The number of instructions added to a job exceeded 9999.	Setting error	(1)Check the following settings.The number of steps in jobDelete unnecessary instructions in job and add new instructions.
				Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (3)If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		19	The number of steps added to a job exceeded 9999.	Setting error	(1)Check the following settings.The number of steps in jobDelete unnecessary steps in job and add new steps.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		24	An error occurred in the cluster control process of the accessed job.	Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (3)If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		25	An error occurred when reading the cluster information of the accessed job.	Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (3)If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		26	Failed to acquire the necessary memory area during the access to a job.	Software operation error occurred	 (1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (3)If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		27	An attempt was made to change the contents for the line prohibited from being edited or the commented-out line.	Setting error	(1)Reset the alarm. (2)Cancel the LINE EDIT LOCK/COMMENT OUT settings of target lines in JOB CONTENTS screen.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		92	A job data was destroyed.	Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (3)If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		99	A job data in the memory was destroyed.	Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (3)If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4203	SYSTEM ERROR (POSITION DATA)	-1	The memory area for position data is lacking at the initialization of the position data control process.	Software operation error occurred	Reset the alarm, and then try again.
				YIF01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP21 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		-4	The number of stored position data exceeded the maximum stored data at the initialization of the position data control process.	Software operation error occurred	Reset the alarm, and then try again.
				YIF01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP21 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-5	The memory size of the position data exceeded the maximum memory size at the initialization of the position data control process.	Software operation error occurred	Reset the alarm, and then try again.
				YIF01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP21 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code		YCP21 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-9	Position data control information is destroyed.	Software operation error occurred	Reset the alarm, and then try again.
				YIF01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP21 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-10	An error occurred in specified position data number.	Software operation error occurred	Reset the alarm, and then try again.
				YIF01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP21 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		-13	An attempt was made to access the position data for the undefined control group.	Software operation error occurred	Reset the alarm, and then try again.
				YIF01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP21 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-14	Position data control is not initialized.	Software operation error occurred	Reset the alarm, and then try again.
				YIF01 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				YCP21 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-15	The number of axes for the control groups exceeded the limit.	Software operation error occurred	Reset the alarm, and then try again.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		6	Unused position data file is destroyed.	Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (3)If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	Unused position data file does not exist.	Setting error	(1)Check the following settings.The number of steps in job (position data)Delete unnecessary position data in job and add new position data.
				Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (3)If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	Position data file is destroyed.	Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (3)If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		9	Position data control information is destroyed.	Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (3)If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		10	An error occurred in specified position data number.	Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (3)If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		11	Position data is not registered.	Setting error	(1)Check the following settings.Teaching of alarm occurred pointTeaching the point where alarm occurred.
				Software operation error occurred	(1)Reset the alarm. (2)If the error occurs again, delete the job where the alarm occurred. (3)If the error occurs again after the previous measures were executed, initialize the job file in the maintenance mode, and then load the saved job file. (4)If the error occurs again though the previous measures were executed, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
lumber		Code			
		154	Queue operation error for waiting for semaphore for LOCK instruction (data length too long)	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		221	Transfer data overflow in offline data bank	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		222	Impossible to execute system exclusive for system job	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		223	Event queue number range exceeded	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		224	No motor-gun control group for ESRCH instruction	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		225	The number of WORK ID data and the MAX. WORK FIND COUNT unmatched (MOTION ≠ CV)	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		226	The number of WORK IN/ OUT data and the MAX. WORK FIND COUNT unmatched (MOTION ≠ CV)	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		227	Excessive number of scheduling for execution of instructions	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		236	Data error 1 at restarting after an emergency stop (actual status and the data status unmatched)	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		237	Data error 2 at restarting after an emergency stop (actual status and the data status unmatched)	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		238	Data error 3 at restarting after an emergency stop (actual status and the data status unmatched)	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		239	Timeout for receiving segment data output request	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		240	The number which designates the setting area of correction amount in RT_BANK exceeded the limit value.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		241	Task error of the function calling source (cv_sync_intr ())	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		242	No control group for motor gun for clearance move instruction	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		243	Motor gun condition file number error (including gun pressure file)	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		290	HA function error (get_svspot_ntch_data())	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		500	SL undefined interrupt command (main command)	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		501	SL undefined interrupt command (sub command)	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		502	Previous SL interrupt command processing	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		503	SL interrupt command data error	Software operation error occurred	(1)Reset the alarm, and then try again.(2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		999	Arithmetic section error (segment data all zero timeout)	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1000	System clock (RTC) setting error	Software operation error occurred	(1)Reset the alarm, and then try again.(2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1001	System task priority arrangement error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		6	No previous bank exists.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	The answer bank flag is ON.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	An error occurred in preparation of current position.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		9	Mails could not correctly be received in the current task.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		10	Spline-curve path designation error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		11	The previous bank's pre- reading conversion could not correctly be completed.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		12	A manipulator designation error occurred at JOG operation using the external reference point.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		13	Designation error of cubic interference coordinates	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		62	Arithmetic error occurred when calculating next path of continuous motion stop operation	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		63	Arithmetic error occurred when calculating acceleration time when continuous motion in the pre-reading processing	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		64	Arithmetic error occurred when calculating deceleration time when continuous motion in the pre-reading processing	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		65	Arithmetic error occurred when calculating acceleration and deceleration time when teaching.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		66	Arithmetic error occurred when calculating acceleration and deceleration time for plucking in pre-reading processing 1	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		67	Arithmetic error occurred when calculating acceleration and deceleration time for plucking in pre-reading processing 2	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		68	Arithmetic error occurred when calculating acceleration and deceleration time for plucking in pre-reading processing 3	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		105	Offline occupation control error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		107	OFF_USER_ROT_POS occupation control error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		108	OFF_USER_ROT_POS valid control error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		109	OFF_CV_CALIB_POS occupation control error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		110	OFF_CV_CALIB_POS valid control error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		111	Incorrect teaching for offline conveyor tracking turntable function	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		112	No manipulator is designated for offline conveyor tracking turntable function.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4210	SYSTEM ERROR (LOCAL VARIABLE)	-1	Local variable is not used.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		-10	Local variable area shared heap area.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-11	An error occurred in exclusive control.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-12	An error occurred in exclusive control when control of the local variable was processed.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4220	SERVO POWER OFF FOR JOB		Sub Code: Control group	Setting error	(1)Check the following settings.Turn OFF the servo power supply, and then turn ON the servo power supply for the group axis to be operated.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4221	SERVO POWER OFF FOR JOB		Sub Code: Control group	The servo power is not supplied.	• Turn OFF the servo power supply, and then turn ON the servo power supply for the group axis to be operated.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4224	MEMOPLAY FILE ERROR	-1	An error occurred in control process for memory play file.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-2	The arrangement address information is destroyed for memory play file system.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		-3	The fixed control information is destroyed for memory play file system.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-4	The fixed control information is destroyed for memory play file system.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-5	An attempt was made to newly register the memory play file under use.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-6	An error occurred in checking written sampling data when the data was written to CMOS.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-7	An attempt was made to access an unused memory play file data.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-8	The memory play file is destroyed.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-9	The memory area for sampling data is full.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-10	The sampling data is destroyed.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		-11	Data in control process for memory play file is incorrect.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-12	The sampling data is scanned only at top or end position.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-13	The memory play file system is not initialized.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-14	The offset value is out of range at sampling data scanning.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4225	OVER SPEED (YCP21)		Signifies the control axis number which detected an error	Setting error	 (1)Check the following settings. The gun tip hits the welded target distance of motor gun manipulator motion (external force, gravity)
				Connection failure	 (1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. The motor power line The encoder line
				Module failure (motor)	(1)Reset the alarm.(2)If the alarm occurs again, replace the following unit.The motor
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
Number		105	The type of output data is incorrect.	Setting error	(1)Reset the alarm. (2)Check the following settings. The serial port setting
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4228	WRONG DATA			Software operation error occurred	 (1)Reset the alarm, and then execute following operation. Select a sub menu [WRONG DATA LOG] under main menu [SETUP]. Execute "RESTORE" by selecting "UTILITY" from the pull-down menu. *Occurrence date changes to restoration date after it is restored. Turn the power OFF and then ON to check the factor of the inconsistency 1 and 2, on the data inconsistency screen in maintenance mode. The factor 1: Check the position of the corresponding file The factor 2: Register the position of the corresponding file again *The factor 3:Just turn the power OFF and then ON again. (2)If it would not restore, select "RE CHECK" from the pull-down menu. (3)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				Data error	 (1) If different axes configuration data is loaded, the system data becomes incorrect status, which causes this alarm. In this case, execute the following operations. Select a sub menu [WRONG DATA LOG] under main menu [SETUP]. Select "UTILITY" from the pull-down menu to execute "RESTORE". Load correct axes configuration data (2)If it would not restore, select "RE CHECK" from the pull-down menu, and then load correct axes configuration data. (3)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	An error occurred in the conversion process of gateway address during the network service data creation process of the Ethernet function.	Setting error	 (1)Check the following settings. The DHCP server operation (If the DHCP is used) The network status (If the DHCP is used)
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	An error occurred in the conversion process of DNS server address during the network service data creation process of the Ethernet function.	Setting error	 (1)Check the following settings. The DHCP server operation (If the DHCP is used) The network status (If the DHCP is used)
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		11	An error occurred in the setting clearing process to update DNS information in the DNS process of the Ethernet function.	Setting error	 (1)Check the following settings. The DHCP server operation (If the DHCP is used) The network status (If the DHCP is used)
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		20	The subnet mask was not able to be acquired in the DHCP information update process of the Ethernet function.	Setting error	 (1)Check the following settings. The DHCP server operation (If the DHCP is used) The network status (If the DHCP is used)
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		21	Subnet mask update error occurred in the DHCP information update process of the Ethernet function.	Setting error	(1)Check the following settings.The DHCP server operation (If the DHCP is used)The network status (If the DHCP is used)
				YCP21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	An error was detected in communications timeout with the I/O module board connected with 4th serial bus when the control power turned ON.	Setting error	 (1)Check the following settings. The rotary switch setting which specifies slot numbers of each I/O module I/O module settings in maintenance mode
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. The M II communications cable which I/O module of the corresponding node number (In case of M II communications last station) Terminator 24V power of the corresponding I/O module
				I/O module failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	An error was detected in communications timeout with the I/O module board connected with 8th serial bus when the control power turned ON.	Setting error	(1)Check the following settings. • The rotary switch setting which specifies slot numbers of each I/O module • I/O module settings in maintenance mode
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. •The MII communications cable which I/O module of the corresponding node number • (In case of M II communications last station) Terminator • 24V power of the corresponding I/O module
				I/O module failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy	
Number		Code				
		9	An error was detected in communications timeout with the I/O module board connected with 9th serial bus when the control power turned ON.	Setting error	(1)Check the following settings. The rotary switch setting which specifies slot numbers of each I/O module I/O module settings in maintenance mode	
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. The MII communications cable which I/O module of the corresponding node number (In case of M II communications last station) Terminator 24V power of the corresponding I/O module 	
				I/O module failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.	
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.	
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).	
		10	An error was detected in communications timeout with the I/O module board connected with 10th serial bus when the control power turned ON.	Setting error	(1)Check the following settings. The rotary switch setting which specifies slot numbers of each I/O module I/O module settings in maintenance mode	

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code		Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. •The MII communications cable which I/O module of the corresponding node number • (In case of M II communications last station) Terminator • 24V power of the corresponding I/O module
				I/O module failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		11	An error was detected in communications timeout with the I/O module board connected with 11th serial bus when the control power turned ON.	Setting error	(1)Check the following settings. • The rotary switch setting which specifies slot numbers of each I/O module • I/O module settings in maintenance mode
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. •The MII communications cable which I/O module of the corresponding node number • (In case of M II communications last station) Terminator • 24V power of the corresponding I/O module
				I/O module failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		Code		YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		12	An error was detected in communications timeout with the I/O module board connected with 12th serial bus when the control power turned ON.	Setting error	 (1)Check the following settings. The rotary switch setting which specifies slot numbers of each I/O module I/O module settings in maintenance mode
				Connection failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. •The Mll communications cable which I/O module of the corresponding node number • (In case of M II communications last station) Terminator • 24V power of the corresponding I/O module
				I/O module failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. •The MII communications cable which I/O module of the corresponding node number • (In case of M II communications last station) Terminator • 24V power of the corresponding I/O module
				I/O module failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		14	An error was detected in communications timeout with the I/O module board connected with 14th serial bus when the control power turned ON.	Setting error	(1)Check the following settings. The rotary switch setting which specifies slot numbers of each I/O module I/O module settings in maintenance mode

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. The PCI connector of the corresponding I/O module
				I/O module failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • The corresponding I/O module (PCI board)
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		18	An error was detected in communications timeout with the I/O module board connected with 3rd PCI when the control power turned ON.	Setting error	 (1)Check the following settings. PCI slot number in which each PCI board is mounted I/O module settings in maintenance mode
				Connection failure	 (1)Turn the power OFF then back ON. (2)If the alarm occurs again, check the connection and insertion of the following connector. The PCI connector of the corresponding I/O module
				I/O module failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the following board. Save the CMOS.BIN before replace the board to be safe. • The corresponding I/O module (PCI board)
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		2	Error from welder 2.	Arc welding power source error	
		3	Error from welder 3.	Arc welding power source error	
		4	Error from welder 4.	Arc welding power source error	
		5	Error from welder 5.	Arc welding power source error	
		6	Error from welder 6.	Arc welding power source error	
		7	Error from welder 7.	Arc welding power source error	
		8	Error from welder 8.	Arc welding power source error	
		107	Sub code: Error No. from welder.	Arc welding power source error	
4243	MOTOWELD OUTPUT OVER-CURRENT	1	Error from welder 1.	Arc welding power source error	Confirm the following content. (1) Check that the torch cable or power cable is not grounded. (2)Check that the contact tip does not contact the welding work piece. (3)Check that the encoder cable is not damaged. (4)Check if the screws of the connector terminal block are securely fastened. If the encoder cable is disconnected or the screws are loosened, the wire feeding speed becomes excessively fast and an error occurs in the wire feeding amount. Replace the encoder cable or fasten the screws of the connector terminal block.

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
- Namber		Code		other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Error from welder 2.	Arc welding power source error	Confirm the following content. (1) Check that the torch cable or power cable is not grounded. (2)Check that the contact tip does not contact the welding work piece. (3)Check that the encoder cable is not damaged. (4)Check if the screws of the connector terminal block are securely fastened. If the encoder cable is disconnected or the screws are loosened, the wire feeding speed becomes excessively fast and an error occurs in the wire feeding amount. Replace the encoder cable or fasten the screws of the connector terminal block.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	Error from welder 3.	Arc welding power source error	Confirm the following content. (1) Check that the torch cable or power cable is not grounded. (2)Check that the contact tip does not contact the welding work piece. (3)Check that the encoder cable is not damaged. (4)Check if the screws of the connector terminal block are securely fastened. If the encoder cable is disconnected or the screws are loosened, the wire feeding speed becomes excessively fast and an error occurs in the wire feeding amount. Replace the encoder cable or fasten the screws of the connector terminal block.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		4	Error from welder 4.	Arc welding power source error	Confirm the following content. (1) Check that the torch cable or power cable is not grounded. (2)Check that the contact tip does not contact the welding work piece. (3)Check that the encoder cable is not damaged. (4)Check if the screws of the connector terminal block are securely fastened. If the encoder cable is disconnected or the screws are loosened, the wire feeding speed becomes excessively fast and an error occurs in the wire feeding amount. Replace the encoder cable or fasten the screws of the connector terminal block.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	Error from welder 5.	Arc welding power source error	Confirm the following content. (1) Check that the torch cable or power cable is not grounded. (2)Check that the contact tip does not contact the welding work piece. (3)Check that the encoder cable is not damaged. (4)Check if the screws of the connector terminal block are securely fastened. If the encoder cable is disconnected or the screws are loosened, the wire feeding speed becomes excessively fast and an error occurs in the wire feeding amount. Replace the encoder cable or fasten the screws of the connector terminal block.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	Error from welder 6.	Arc welding power source error	Confirm the following content. (1) Check that the torch cable or power cable is not grounded. (2)Check that the contact tip does not contact the welding work piece. (3)Check that the encoder cable is not damaged. (4)Check if the screws of the connector terminal block are securely fastened. If the encoder cable is disconnected or the screws are loosened, the wire feeding speed becomes excessively fast and an error occurs in the wire feeding amount. Replace the encoder cable or fasten the screws of the connector terminal block.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	Error from welder 7.	Arc welding power source error	Confirm the following content. (1) Check that the torch cable or power cable is not grounded. (2) Check that the contact tip does not contact the welding work piece. (3) Check that the encoder cable is not damaged. (4) Check if the screws of the connector terminal block are securely fastened. If the encoder cable is disconnected or the screws are loosened, the wire feeding speed becomes excessively fast and an error occurs in the wire feeding amount. Replace the encoder cable or fasten the screws of the connector terminal block.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	Error from welder 8.	Arc welding power source error	Confirm the following content. (1) Check that the torch cable or power cable is not grounded. (2) Check that the contact tip does not contact the welding work piece. (3) Check that the encoder cable is not damaged. (4) Check if the screws of the connector terminal block are securely fastened. If the encoder cable is disconnected or the screws are loosened, the wire feeding speed becomes excessively fast and an error occurs in the wire feeding amount. Replace the encoder cable or fasten the screws of the connector terminal block.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		701	Sub code: Error No. from welder.	Arc welding power source error	Confirm the following content. (1) Check that the torch cable or power cable is not grounded. (2)Check that the contact tip does not contact the welding work piece. (3)Check that the encoder cable is not damaged. (4)Check if the screws of the connector terminal block are securely fastened. If the encoder cable is disconnected or the screws are loosened, the wire feeding speed becomes excessively fast and an error occurs in the wire feeding amount. Replace the encoder cable or fasten the screws of the connector terminal block.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4244	MOTOWELD INPUT OVER-VOLTAGE	1	Error from welder 1.	Arc welding power source error	Confirm the input voltage.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Error from welder 2.	Arc welding power source error	Confirm the input voltage.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	Error from welder 3.	Arc welding power source error	Confirm the input voltage.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	Error from welder 4.	Arc welding power source error	Confirm the input voltage.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	Error from welder 5.	Arc welding power source error	Confirm the input voltage.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	Error from welder 6.	Arc welding power source error	Confirm the input voltage.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		7	Error from welder 7.	Arc welding power source error	Confirm the input voltage.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	Error from welder 8.	Arc welding power source error	Confirm the input voltage.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4245	MOTOWELD EXCESSIVE TEMPERATURE	1	Error from welder 1.	Arc welding power source error	 (1)Check the ambient temperature (40 degrees centigrade or less) and operational ratio (60%). (2) Check if there are dust, dirt, and clogging on the dust protective filter. Clean or replace the dust protective filter if necessary. (3)In case of RL350, Check the thermal guard (Item No.410).
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Error from welder 2.	Arc welding power source error	 (1)Check the ambient temperature (40 degrees centigrade or less) and operational ratio (60%). (2) Check if there are dust, dirt, and clogging on the dust protective filter. Clean or replace the dust protective filter if necessary. (3)In case of RL350, Check the thermal guard (Item No.410).
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	Error from welder 3.	Arc welding power source error	 (1)Check the ambient temperature (40 degrees centigrade or less) and operational ratio (60%). (2) Check if there are dust, dirt, and clogging on the dust protective filter. Clean or replace the dust protective filter if necessary. (3)In case of RL350, Check the thermal guard (Item No.410).
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		4	Error from welder 4.	Arc welding power source error	 (1)Check the ambient temperature (40 degrees centigrade or less) and operational ratio (60%). (2) Check if there are dust, dirt, and clogging on the dust protective filter. Clean or replace the dust protective filter if necessary. (3)In case of RL350, Check the thermal guard (Item No.410).
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	Error from welder 5.	Arc welding power source error	 (1)Check the ambient temperature (40 degrees centigrade or less) and operational ratio (60%). (2) Check if there are dust, dirt, and clogging on the dust protective filter. Clean or replace the dust protective filter if necessary. (3)In case of RL350, Check the thermal guard (Item No.410).
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	Error from welder 6.	Arc welding power source error	 (1)Check the ambient temperature (40 degrees centigrade or less) and operational ratio (60%). (2) Check if there are dust, dirt, and clogging on the dust protective filter. Clean or replace the dust protective filter if necessary. (3)In case of RL350, Check the thermal guard (Item No.410).
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	Error from welder 7.	Arc welding power source error	 (1)Check the ambient temperature (40 degrees centigrade or less) and operational ratio (60%). (2) Check if there are dust, dirt, and clogging on the dust protective filter. Clean or replace the dust protective filter if necessary. (3)In case of RL350, Check the thermal guard (Item No.410).
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		340	The temperature in the Main board Pr (MB) exceeds the specified value of the welding source.	Arc welding power source error	 (1)Check the ambient temperature (40 degrees centigrade or less) and operational ratio (60%). (2) Check if there are dust, dirt, and clogging on the dust protective filter. Clean or replace the dust protective filter if necessary. (3)Replace the Main board Pr (MB)-030(Item No. 504).
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4246	MOTOWELD INPUT UNDER-VOLTAGE	1	Error from welder 1.	Arc welding power source error	Confirm the input voltage.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Error from welder 2.	Arc welding power source error	Confirm the input voltage.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	Error from welder 3.	Arc welding power source error	Confirm the input voltage.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	Error from welder 4.	Arc welding power source error	Confirm the input voltage.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	Error from welder 5.	Arc welding power source error	Confirm the input voltage.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	Error from welder 5.	Arc welding power source error	(1)Fill up the cooling water. (2)Check the circuit of cooling water.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	Error from welder 6.	Arc welding power source error	(1)Fill up the cooling water. (2)Check the circuit of cooling water.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	Error from welder 7.	Arc welding power source error	(1)Fill up the cooling water. (2)Check the circuit of cooling water.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	Error from welder 8.	Arc welding power source error	(1)Fill up the cooling water. (2)Check the circuit of cooling water.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		703	Sub code: Error No. from welder.	Arc welding power source error	(1)Fill up the cooling water. (2)Check the circuit of cooling water.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4248	MOTOWELD DIGITAL I/F WDG.ERROR	1	Error from welder 1.	Arc welding power source error	
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		2	Error from welder 2.	Arc welding power source error	
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	Error from welder 3.	Arc welding power source error	
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	Error from welder 4.	Arc welding power source error	
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	Error from welder 5.	Arc welding power source error	
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	Error from welder 6.	Arc welding power source error	
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	Error from welder 7.	Arc welding power source error	
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	Error from welder 8.	Arc welding power source error	

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	Error from welder 6.	Arc welding power source error	Set the user file number 116.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	Error from welder 7.	Arc welding power source error	Set the user file number 116.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	Error from welder 8.	Arc welding power source error	Set the user file number 116.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		404	Sub code: Error No. from welder.	Arc welding power source error	Set the user file number 116.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4252	MOTOWELD DIGITAL I/F CHIP ERROR	1	Error from welder 1.	Arc welding power source error	Replace the main board {Pr(MB) -024}. Contact your Yaskawa representative.
		2	Error from welder 2.	Arc welding power source error	Replace the main board {Pr(MB) -024}. Contact your Yaskawa representative.
		3	Error from welder 3.	Arc welding power source error	Replace the main board {Pr(MB) -024}. Contact your Yaskawa representative.
		4	Error from welder 4.	Arc welding power source error	Replace the main board {Pr(MB) -024}. Contact your Yaskawa representative.
		5	Error from welder 5.	Arc welding power source error	Replace the main board {Pr(MB) -024}. Contact your Yaskawa representative.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		3	Error from welder 3.	Arc welding power source error	The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative.
		4	Error from welder 4.	Arc welding power source error	The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative.
		5	Error from welder 5.	Arc welding power source error	The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative.
		6	Error from welder 6.	Arc welding power source error	The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative.
		7	Error from welder 7.	Arc welding power source error	The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative.
		8	Error from welder 8.	Arc welding power source error	The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative.
		305	Sub code: Error No. from welder.	Arc welding power source error	The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative.
4255	MOTOWELD MACHINE TYP.ERROR3	1	Error from welder 1.	Arc welding power source error	The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative.
		2	Error from welder 2.	Arc welding power source error	The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative.
		3	Error from welder 3.	Arc welding power source error	The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative.
		4	Error from welder 4.	Arc welding power source error	The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative.
		5	Error from welder 5.	Arc welding power source error	The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative.
		6	Error from welder 6.	Arc welding power source error	The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative.
		7	Error from welder 7.	Arc welding power source error	The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative.
		8	Error from welder 8.	Arc welding power source error	The setting of hardware or software may be not performed correctly. Contact your YASKAWA representative.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		5	Error from welder 5.	Arc welding power source error	(1) Check the DIP switch setting of PR(CR) -002R1 board. (2) PR(CR) -002R1 board may be broken. Contact your YASKAWA representative.
		6	Error from welder 6.	Arc welding power source error	(1) Check the DIP switch setting of PR(CR) -002R1 board. (2) PR(CR) -002R1 board may be broken. Contact your YASKAWA representative.
		7	Error from welder 7.	Arc welding power source error	(1) Check the DIP switch setting of PR(CR) -002R1 board. (2) PR(CR) -002R1 board may be broken. Contact your YASKAWA representative.
		8	Error from welder 8.	Arc welding power source error	(1) Check the DIP switch setting of PR(CR) -002R1 board. (2) PR(CR) -002R1 board may be broken. Contact your YASKAWA representative.
		303	Sub code: Error No. from welder.	Arc welding power source error	(1) Check the DIP switch setting of PR(CR) -002R1 board.(2) PR(CR) -002R1 board may be broken. Contact your YASKAWA representative.
4258	MOTOWELD FEEDER ERROR	1	Error from welder 1.	Arc welding power source error	Confirm the following content. (1)The encoder cable be not damaged? (2)Isn't there loosening of the screw of the encoder cable connection terminal block? When there are a disconnection of the encoder cable or loosening of the screw, the wire feeding speed quickens abnormally, and it becomes an abnormal amount of feeding. Replace the encoder cable or fasten the screw of the terminal block. (3)Check if the wire load becomes heavy. Make sure that the torch cable and conduit cable are not bent excessively.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	Error from welder 5.	Arc welding power source error	Confirm the following content. (1)The encoder cable be not damaged? (2)Isn't there loosening of the screw of the encoder cable connection terminal block? When there are a disconnection of the encoder cable or loosening of the screw, the wire feeding speed quickens abnormally, and it becomes an abnormal amount of feeding. Replace the encoder cable or fasten the screw of the terminal block. (3)Check if the wire load becomes heavy. Make sure that the torch cable and conduit cable are not bent excessively.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	Error from welder 6.	Arc welding power source error	Confirm the following content. (1)The encoder cable be not damaged? (2)Isn't there loosening of the screw of the encoder cable connection terminal block? When there are a disconnection of the encoder cable or loosening of the screw, the wire feeding speed quickens abnormally, and it becomes an abnormal amount of feeding. Replace the encoder cable or fasten the screw of the terminal block. (3)Check if the wire load becomes heavy. Make sure that the torch cable and conduit cable are not bent excessively.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		7	Error from welder 7.	Arc welding power source error	Confirm the following content. (1)The encoder cable be not damaged? (2)Isn't there loosening of the screw of the encoder cable connection terminal block? When there are a disconnection of the encoder cable or loosening of the screw, the wire feeding speed quickens abnormally, and it becomes an abnormal amount of feeding. Replace the encoder cable or fasten the screw of the terminal block. (3)Check if the wire load becomes heavy. Make sure that the torch cable and conduit cable are not bent excessively.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	Error from welder 8.	Arc welding power source error	Confirm the following content. (1)The encoder cable be not damaged? (2)Isn't there loosening of the screw of the encoder cable connection terminal block? When there are a disconnection of the encoder cable or loosening of the screw, the wire feeding speed quickens abnormally, and it becomes an abnormal amount of feeding. Replace the encoder cable or fasten the screw of the terminal block. (3)Check if the wire load becomes heavy. Make sure that the torch cable and conduit cable are not bent excessively.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		501	Sub code: Error No. from welder.	Arc welding power source error	Confirm the following content. (1)The encoder cable be not damaged? (2)Isn't there loosening of the screw of the encoder cable connection terminal block? When there are a disconnection of the encoder cable or loosening of the screw, the wire feeding speed quickens abnormally, and it becomes an abnormal amount of feeding. Replace the encoder cable or fasten the screw of the terminal block. (3)Check if the wire load becomes heavy. Make sure that the torch cable and conduit cable are not bent excessively.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		2	Error from welder 2.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
		3	Error from welder 3.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
		4	Error from welder 4.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
		5	Error from welder 5.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
		6	Error from welder 6.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		7	Error from welder 7.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
		8	Error from welder 8.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
		205	Sub code: Error No. from welder.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
4263	MOTOWELD MEMORY ERROR2	1	Error from welder 1.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
		2	Error from welder 2.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		8	Error from welder 8.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
		215	Sub code: Error No. from welder.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
4264	MOTOWELD MEMORY ERROR3	1	Error from welder 1.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
		2	Error from welder 2.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
		3	Error from welder 3.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		206	Sub code: Error No. from welder.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
4265	MOTOWELD MEMORY ERROR4	1	Error from welder 1.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
		2	Error from welder 2.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
		3	Error from welder 3.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
		4	Error from welder 4.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
4266	MOTOWELD MEMORY ERROR5	1	Error from welder 1.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
		2	Error from welder 2.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
		3	Error from welder 3.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
		4	Error from welder 4.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
		5	Error from welder 5.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		2	Error from welder 2.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
		3	Error from welder 3.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
		4	Error from welder 4.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
		5	Error from welder 5.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
		6	Error from welder 6.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		3	Error from welder 3.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
		4	Error from welder 4.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
		5	Error from welder 5.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
		6	Error from welder 6.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.
		7	Error from welder 7.	Arc welding power source error	The data may not have been correctly saved when the welding conditions are recorded because of a power failure, etc. Reset the system after saving the changed parameters. (See the manual of MOTOWELD "4.2.10 System Reset") If the error occurs again, the board may be broken. Contact your Yaskawa representative.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		4	Error from welder 4.	Arc welding power source error	(1)Check if the voltage detection wire is connected. Heck if the voltage detection line or the short-circuit cap is connected to the CON7 of the MOTOWELD. (2)Check that the contact tip does not contact the work piece to be welded. Set the contact tip so as not to contact the work piece. (3)Temporary power failure may have occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	Error from welder 5.	Arc welding power source error	(1)Check if the voltage detection wire is connected. Heck if the voltage detection line or the short-circuit cap is connected to the CON7 of the MOTOWELD. (2)Check that the contact tip does not contact the work piece to be welded. Set the contact tip so as not to contact the work piece. (3)Temporary power failure may have occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	Error from welder 6.	Arc welding power source error	(1)Check if the voltage detection wire is connected. Heck if the voltage detection line or the short-circuit cap is connected to the CON7 of the MOTOWELD. (2)Check that the contact tip does not contact the work piece to be welded. Set the contact tip so as not to contact the work piece. (3)Temporary power failure may have occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	Error from welder 7.	Arc welding power source error	(1)Check if the voltage detection wire is connected. Heck if the voltage detection line or the short-circuit cap is connected to the CON7 of the MOTOWELD. (2)Check that the contact tip does not contact the work piece to be welded. Set the contact tip so as not to contact the work piece. (3)Temporary power failure may have occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		Jour		other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	Error from welder 8.	Arc welding power source error	(1)Check if the voltage detection wire is connected. Heck if the voltage detection line or the short-circuit cap is connected to the CON7 of the MOTOWELD. (2)Check that the contact tip does not contact the work piece to be welded. Set the contact tip so as not to contact the work piece. (3)Temporary power failure may have occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		702	Sub code: Error No. from welder.	Arc welding power source error	(1)Check if the voltage detection wire is connected. Heck if the voltage detection line or the short-circuit cap is connected to the CON7 of the MOTOWELD. (2)Check that the contact tip does not contact the work piece to be welded. Set the contact tip so as not to contact the work piece. (3)Temporary power failure may have occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4272	MOTOWELD SAFTY- CIRCUIT ERROR	1	Error from welder 1.	Arc welding power source error	Contact your Yaskawa representative.
		2	Error from welder 2.	Arc welding power source error	Contact your Yaskawa representative.
		3	Error from welder 3.	Arc welding power source error	Contact your Yaskawa representative.
		4	Error from welder 4.	Arc welding power source error	Contact your Yaskawa representative.
		5	Error from welder 5.	Arc welding power source error	Contact your Yaskawa representative.
		6	Error from welder 6.	Arc welding power source error	Contact your Yaskawa representative.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	Error from welder 7.	Arc welding power source error	Replace the IGBT device (Part code AJ0EL3870).
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	Error from welder 8.	Arc welding power source error	Replace the IGBT device (Part code AJ0EL3870).
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		104	Sub code: Error No. from welder.	Arc welding power source error	Replace the IGBT device (Part code AJ0EL3870).
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4274	MOTOWELD VOLTAGE DETECTOR ERROR	1	Error from welder 1.	Arc welding power source error	Contact your Yaskawa representative.
		2	Error from welder 2.	Arc welding power source error	Contact your Yaskawa representative.
		3	Error from welder 3.	Arc welding power source error	Contact your Yaskawa representative.
		4	Error from welder 4.	Arc welding power source error	Contact your Yaskawa representative.
		5	Error from welder 5.	Arc welding power source error	Contact your Yaskawa representative.
		6	Error from welder 6.	Arc welding power source error	Contact your Yaskawa representative.
		7	Error from welder 7.	Arc welding power source error	Contact your Yaskawa representative.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		5	Error from welder 5.	Arc welding power source error	Contact your Yaskawa representative.
		6	Error from welder 6.	Arc welding power source error	Contact your Yaskawa representative.
		7	Error from welder 7.	Arc welding power source error	Contact your Yaskawa representative.
		8	Error from welder 8.	Arc welding power source error	Contact your Yaskawa representative.
		119	Sub code: Error No. from welder.	Arc welding power source error	Contact your Yaskawa representative.
4277	MOTOWELD OUTSIDE OF CURR.SETTING(H)	1	Error from welder 1.	Arc welding power source error	 (1)Check if the selection of motor is correct, or confirm the settings of C parameter C09. (2)Check that the welding wire does not slip, or the wire is fed as instructed by the feeding command. (3)Check that the wire stick out is not excessively short or long. (4)Check that the range set in C parameter C29 is not too narrow. (5)Check if the wire, shielding, etc. are correctly set.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Error from welder 2.	Arc welding power source error	 (1)Check if the selection of motor is correct, or confirm the settings of C parameter C09. (2)Check that the welding wire does not slip, or the wire is fed as instructed by the feeding command. (3)Check that the wire stick out is not excessively short or long. (4)Check that the range set in C parameter C29 is not too narrow. (5)Check if the wire, shielding, etc. are correctly set.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		6	Error from welder 6.	Arc welding power source error	 (1)Check if the selection of motor is correct, or confirm the settings of C parameter C09. (2)Check that the welding wire does not slip, or the wire is fed as instructed by the feeding command. (3)Check that the wire stick out is not excessively short or long. (4)Check that the range set in C parameter C29 is not too narrow. (5)Check if the wire, shielding, etc. are correctly set.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	Error from welder 7.	Arc welding power source error	(1)Check if the selection of motor is correct, or confirm the settings of C parameter C09. (2)Check that the welding wire does not slip, or the wire is fed as instructed by the feeding command. (3)Check that the wire stick out is not excessively short or long. (4)Check that the range set in C parameter C29 is not too narrow. (5)Check if the wire, shielding, etc. are correctly set.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	Error from welder 8.	Arc welding power source error	 (1)Check if the selection of motor is correct, or confirm the settings of C parameter C09. (2)Check that the welding wire does not slip, or the wire is fed as instructed by the feeding command. (3)Check that the wire stick out is not excessively short or long. (4)Check that the range set in C parameter C29 is not too narrow. (5)Check if the wire, shielding, etc. are correctly set.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		3	Error from welder 3.	Arc welding power source error	 (1)Check if the selection of motor is correct, or confirm the settings of C parameter C09. (2)Check that the welding wire does not slip, or the wire is fed as instructed by the feeding command. (3)Check that the wire stick out is not excessively short or long. (4)Check that the range set in C parameter C29 is not too narrow. (5)Check if the wire, shielding, etc. are correctly set.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	Error from welder 4.	Arc welding power source error	(1)Check if the selection of motor is correct, or confirm the settings of C parameter C09. (2)Check that the welding wire does not slip, or the wire is fed as instructed by the feeding command. (3)Check that the wire stick out is not excessively short or long. (4)Check that the range set in C parameter C29 is not too narrow. (5)Check if the wire, shielding, etc. are correctly set.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	Error from welder 5.	Arc welding power source error	 (1)Check if the selection of motor is correct, or confirm the settings of C parameter C09. (2)Check that the welding wire does not slip, or the wire is fed as instructed by the feeding command. (3)Check that the wire stick out is not excessively short or long. (4)Check that the range set in C parameter C29 is not too narrow. (5)Check if the wire, shielding, etc. are correctly set.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	Error from welder 5.	Arc welding power source error	Replace the switching power supply unit. (Service parts code:AJ0E35055)
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	Error from welder 6.	Arc welding power source error	Replace the switching power supply unit. (Service parts code:AJ0E35055)
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	Error from welder 7.	Arc welding power source error	Replace the switching power supply unit. (Service parts code:AJ0E35055)
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	Error from welder 8.	Arc welding power source error	Replace the switching power supply unit. (Service parts code:AJ0E35055)
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		704	Sub code: Error No. from welder.	Arc welding power source error	Replace the switching power supply unit. (Service parts code:AJ0E35055)
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4282	MOTOWELD POWER SUPPLY ERROR	1	Error from welder 1.	Arc welding power source error	Replace the switching power supply unit. (Service parts code:AJ0E35055)
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		705	Sub code: Error No. from welder.	Arc welding power source error	Replace the switching power supply unit. (Service parts code:AJ0E35055)
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4283	MOTOWELD ILLEGAL WELD TYPE	1	Error from welder 1.	Arc welding power source error	Confirm the welding process setting in the welding user file.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Error from welder 2.	Arc welding power source error	Confirm the welding process setting in the welding user file.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	Error from welder 3.	Arc welding power source error	Confirm the welding process setting in the welding user file.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	Error from welder 4.	Arc welding power source error	Confirm the welding process setting in the welding user file.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	Error from welder 5.	Arc welding power source error	Confirm the welding process setting in the welding user file.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		6	Error from welder 6.	Arc welding power source error	Confirm the welding process setting in the welding user file.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	Error from welder 7.	Arc welding power source error	Confirm the welding process setting in the welding user file.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	Error from welder 8.	Arc welding power source error	Confirm the welding process setting in the welding user file.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		406	A wrong welding process is set in the welding user file.	Arc welding power source error	Confirm the welding process setting in the welding user file.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		407	A welding type is not set in a user file of the MOTOWELD.	Arc welding power source error	Set a welding type to user file of MOTOWELD. The user file can setup in the editor screen for ARC START CONDITION FILE or ARC END CONDITION FILE of the DX200.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4284	MOTOWELD SOFTWARE MULFUNCTION	310	The version of the data base is not suitable for the software of the welding power source.	Arc welding power source error	Load the suitable database.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		4	ts3 Sub code[4**] shows the error code of Fronius power source 4:main error code **:sub error code	Arc welding power source error	Allow the machine to cool. Confirm the Fronius's manual.
		5	tp1 Sub code[5**] shows the error code of Fronius power source 5:main error code **:sub error code	Arc welding power source error	Allow the machine to cool. Confirm the Fronius's manual.
		6	tp2 Sub code[6**] shows the error code of Fronius power source 6:main error code **:sub error code	Arc welding power source error	Allow the machine to cool. Confirm the Fronius's manual.
		7	tp3 Sub code[7**] shows the error code of Fronius power source 7:main error code **:sub error code	Arc welding power source error	Allow the machine to cool. Confirm the Fronius's manual.
		8	tp4 Sub code[8**] shows the error code of Fronius power source 8:main error code **:sub error code	Arc welding power source error	Allow the machine to cool. Confirm the Fronius's manual.
		9	tp5 Sub code[9**] shows the error code of Fronius power source 9:main error code **:sub error code	Arc welding power source error	Allow the machine to cool. Confirm the Fronius's manual.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		10	tp6 Sub code[10**] shows the error code of Fronius power source 10:main error code **:sub error code	Arc welding power source error	Allow the machine to cool. Confirm the Fronius's manual.
		11	Errtf1 Sub code[11**] shows the error code of Fronius power source 11:main error code **:sub error code	Arc welding power source error	Change the thermo-sensor on the sec. side. Confirm the Fronius's manual.
		12	Errtf2 Sub code[12**] shows the error code of Fronius power source 12:main error code **:sub error code	Arc welding power source error	Change the thermo-sensor on the sec. side. Confirm the Fronius's manual.
		13	Errtf3 Sub code[13**] shows the error code of Fronius power source 13:main error code **:sub error code	Arc welding power source error	Check cable tree of temperature sensors. Confirm the Fronius's manual.
		14	Errtf4 Sub code[14**] shows the error code of Fronius power source 14:main error code **:sub error code	Arc welding power source error	Only for MagicWave power source. Confirm the Fronius's manual.

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
Number		15	Errtf5 Sub code[15**] shows the error code of Fronius power source 15:main error code	Arc welding power source error	Check cable tree of temperature sensors. Confirm the Fronius's manual.
		16	**:sub error code Errtf6 Sub code[16**] shows the error code of Fronius power source 16:main error code **:sub error code	Arc welding power source error	Change BPS pc-board. Confirm the Fronius's manual.
		17	DSPE05 Sub code[17**] shows the error code of Fronius power source 17:main error code **:sub error code	Arc welding power source error	Update firmware, otherwise change the UST board. Confirm the Fronius's manual.
		18	ErrbPS Sub code[18**] shows the error code of Fronius power source 18:main error code **:sub error code	Arc welding power source error	Update firmware, otherwise change the UST board or otherwise change the BPS board. Confirm the Fronius's manual.
		19	Err IP Sub code[19**] shows the error code of Fronius power source 19:main error code **:sub error code	Arc welding power source error	Change the BPS board. Change the secondary diode. Change the welding transformer. Confirm the Fronius's manual.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		25	Err25.x Sub code[25**] shows the error code of Fronius power source 25:main error code **:sub error code	Arc welding power source error	Update firmware, otherwise change the UST board. Confirm the Fronius's manual
		26	Err26.x Sub code[26**] shows the error code of Fronius power source 26:main error code **:sub error code	Arc welding power source error	Check whether the CfgMem has good contact to the connecting cables and in the plug. Re-crimp if necessary. If this does not help, remove and send to Fronius Austria, together with details of the series number of the machine. Confirm the Fronius's manual
		27	Err027 Sub code[27**] shows the error code of Fronius power source 27:main error code **:sub error code	Arc welding power source error	Measure the +24VDC of NT 24. Confirm the Fronius's manual
		28	Err028 Sub code[28**] shows the error code of Fronius power source 28:main error code **:sub error code	Arc welding power source error	Change the cooling-unit temperature sensor. Confirm the Fronius's manual
		29	DSPC Sub code[29**] shows the error code of Fronius power source 29:main error code **:sub error code	Arc welding power source error	Update firmware, otherwise change the UST board. Confirm the Fronius's manual.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		30	EFd Sub code[30**] shows the error code of Fronius power source 30:main error code **:sub error code	Arc welding power source error	Check the wire-feed system. Confirm the Fronius's manual.
		31	Err31 Sub code[31**] shows the error code of Fronius power source 31:main error code **:sub error code	Arc welding power source error	Update firmware, otherwise change the UST board. Confirm the Fronius's manual.
		32	EcF Sub code[32**] shows the error code of Fronius power source 32:main error code **:sub error code	Arc welding power source error	Install correct primary BPS power module. Confirm the Fronius's manual.
		33	tSt Sub code[33**] shows the error code of Fronius power source 33:main error code **:sub error code	Arc welding power source error	Allow the machine to cool. Confirm the Fronius's manual.
		34	Errtf7 Sub code[34**] shows the error code of Fronius power source 34:main error code **:sub error code	Arc welding power source error	Change the UST board. Confirm the Fronius's manual.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		54	Err054 Sub code[54**] shows the error code of Fronius power source 54:main error code **:sub error code	Arc welding power source error	Increase the bbc (burn-back control) Switch off "Wire stick" in the set-up menu After the end of welding, make sure that the wire does not collide with the workpiece when the torch is retracted. Confirm the Fronius's manual.
		55	NolGn Sub code[55**] shows the error code of Fronius power source 55:main error code **:sub error code	Arc welding power source error	Set a lower Ito value Keep the torch stand-off distance smaller before ignition. Confirm the Fronius's manual.
		56	Err056 Sub code[56**] shows the error code of Fronius power source 56:main error code **:sub error code	Arc welding power source error	Check how much wire is left on the spool If necessary, change the spool. Confirm the Fronius's manual.
		57	NoGAS Sub code[57**] shows the error code of Fronius power source 57:main error code **:sub error code	Arc welding power source error	Check what volume of gas is still available. Confirm the Fronius's manual.
		58	NoArc Sub code[58**] shows the error code of Fronius power source 58:main error code **:sub error code	Arc welding power source error	Check the seam. Confirm the Fronius's manual.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		59	Err059 Sub code[59**] shows the error code of Fronius power source 59:main error code **:sub error code	Arc welding power source error	Confirm the Fronius's manual.
		60	Err060 Sub code[60**] shows the error code of Fronius power source 60:main error code **:sub error code	Arc welding power source error	Confirm the Fronius's manual.
		61	ErrArc Sub code[61**] shows the error code of Fronius power source 61:main error code **:sub error code	Arc welding power source error	Confirm the Fronius's manual.
		62	Err062 Sub code[62**] shows the error code of Fronius power source 62:main error code **:sub error code	Arc welding power source error	Allow the machine to cool. Confirm the Fronius's manual.
		63	EIF Sub code[63**] shows the error code of Fronius power source 63:main error code **:sub error code	Arc welding power source error	Check the interface configuration. Confirm the Fronius's manual.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		64	Errtf8 Sub code[64**] shows the error code of Fronius power source 64:main error code **:sub error code	Arc welding power source error	Change the thermo-sensor of the cooling unit. Confirm the Fronius's manual.
		65	hotH2O Sub code[65**] shows the error code of Fronius power source 65:main error code **:sub error code	Arc welding power source error	Cool down the cooling liquid. Confirm the Fronius's manual.
		66	tJo Sub code[66**] shows the error code of Fronius power source 66:main error code **:sub error code	Arc welding power source error	Allow the JobMaster torch to cool. Confirm the Fronius's manual.
		67	ErrtJo Sub code[67**] shows the error code of Fronius power source 67:main error code **:sub error code	Arc welding power source error	Change JobMaster pc-board. Confirm the Fronius's manual.
		68	Err068 Sub code[68**] shows the error code of Fronius power source 68:main error code **:sub error code	Arc welding power source error	Confirm the Fronius's manual.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		69	Err069 Sub code[69**] shows the error code of Fronius power source 69:main error code **:sub error code	Arc welding power source error	New welding start. Confirm the Fronius's manual.
		70	Err70 Sub code[70**] shows the error code of Fronius power source 70:main error code **:sub error code	Arc welding power source error	Check gas. Confirm the Fronius's manual.
		71	Err71 Sub code[71**] shows the error code of Fronius power source 71:main error code **:sub error code	Arc welding power source error	Check the welding seam. Confirm the Fronius's manual.
		72	ErrCfg Sub code[72**] shows the error code of Fronius power source 72:main error code **:sub error code	Arc welding power source error	Check LHSB connection. Confirm the Fronius's manual.
		73	noHost Sub code[73**] shows the error code of Fronius power source 73:main error code **:sub error code	Arc welding power source error	Check the connection between UST and RCU and the firmware. Confirm the Fronius's manual.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		74	Touch Sub code[74**] shows the error code of Fronius power source 74:main error code **:sub error code	Arc welding power source error	Touch sensing mode activated - no error. Confirm the Fronius's manual.
		75	Err75 Sub code[75**] shows the error code of Fronius power source 75:main error code **:sub error code	Arc welding power source error	Confirm the Fronius's manual.
		77	Err77 Sub code[77**] shows the error code of Fronius power source 77:main error code **:sub error code	Arc welding power source error	Check the wire feeding alignment if it is smooth. Confirm the Fronius's manual.
		78	E-Stop Sub code[78**] shows the error code of Fronius power source 78:main error code **:sub error code	Arc welding power source error	Close the Safety circuit and activate the Error reset. Confirm the Fronius's manual.
		79	ErrU0 Sub code[79**] shows the error code of Fronius power source 79:main error code **:sub error code	Arc welding power source error	Confirm the Fronius's manual.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		101	PrtFlt Sub code[101**] shows the error code of Fronius power source 101:main error code **:sub error code	Arc welding power source error	Update firmware, otherwise change the UST board. Confirm the Fronius's manual.
		102	IIIOpa Sub code[102**] shows the error code of Fronius power source 102:main error code **:sub error code	Arc welding power source error	Update firmware, otherwise change the UST board. Confirm the Fronius's manual.
		103	IllIna Sub code[103**] shows the error code of Fronius power source 103:main error code **:sub error code	Arc welding power source error	Update firmware, otherwise change the UST board. Confirm the Fronius's manual.
		104	IIIBus Sub code[104**] shows the error code of Fronius power source 104:main error code **:sub error code	Arc welding power source error	Update firmware, otherwise change the UST board. Confirm the Fronius's manual.
		105	Err105 Sub code[105**] shows the error code of Fronius power source 105:main error code **:sub error code	Arc welding power source error	Update firmware, otherwise change the UST board. Confirm the Fronius's manual.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		106	STKOVL Sub code[106**] shows the error code of Fronius power source 106:main error code **:sub error code	Arc welding power source error	Update firmware, otherwise change the UST board. Confirm the Fronius's manual.
		107	STKUVL Sub code[107**] shows the error code of Fronius power source 107:main error code **:sub error code	Arc welding power source error	Update firmware, otherwise change the UST board. Confirm the Fronius's manual.
		108	ErrDog Sub code[108**] shows the error code of Fronius power source 108:main error code **:sub error code	Arc welding power source error	Update firmware, otherwise change the UST board. Confirm the Fronius's manual.
		109	ASSErt Sub code[109**] shows the error code of Fronius power source 109:main error code **:sub error code	Arc welding power source error	Update firmware, otherwise change the UST board. Confirm the Fronius's manual.
		110	EDg 1 Sub code[110**] shows the error code of Fronius power source 110:main error code **:sub error code	Arc welding power source error	Update firmware, otherwise change the UST board. Confirm the Fronius's manual.
4300	VERIFY ERROR (SERVO PARAMETER)			Setting error	(1)Reset the alarm. (2)If the alarm occurs again, check whether the setting is within the allowable range.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Module failure (converter)	(1)Reset the alarm (2)If the alarm occurs again, replace the converter.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4305	CONVERTER CIRCUIT CHARGE ERROR		Sub Code: Signifies the physical No. of converter in which the alarm occurred	Connection failure	(1)Reset the alarm.(2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors.Converter-CN556
				Module failure (converter)	(1)Reset the alarm. (2)If the alarm occurs again, replace the converter.
				Module failure (Regenerative resistor)	Check if there is no ground fault in the regeneration resistors.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4306	AMPLIFIER READY SIGNAL ERROR		Sub Code: Signifies the axis in which the alarm occurred	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. • EAXA21-CN501 to 506,CN510 • EAXB21-CN531,532,533 • Amplifier-CN581,582 • Converter-CN551,552A,552B
				Module failure (converter)	(1)Reset the alarm.(2)If the alarm occurs again, check if the LED (green) for amplifier is lighted up when servo power is ON.(3) If it is lighted, replace the converter.
				Module failure (amplifier)	(1)Reset the alarm.(2)If the alarm occurs again, replace the corresponding amplifier.
				EAXA21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA/EAXB board. Save the CMOS.BIN before replacing the board to be safe.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				Connection failure	(1)Reset the alarm.(2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors.• Manipulator cable
				Module failure (motor)	(1)Reset the alarm.(2)If the alarm occurs again, replace the motor.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4315	COLLISION DETECT		Sub Code: Signifies the axis in which the alarm occurred	Setting error	Check the following settings. • The tool information • The selection tap of the transfer • The collision detection level • JOB • Work • The speed of JOB • The acceleration/deceleration speed of ACC and DEC • Length of the power cables
				Interference error	Remove the following interferences. • The interferences to the jigs of Robot. • The interferences to the jigs of workpieces. • If there is no interference between robot and workpieces, set the shock detection level to more than maximum eternal value. Up to 500% can be set.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				Maintenance failure	Measure the density of grease iron powder in the speed reducer and do the maintenance.
				Defective speed reducer	Replace the speed reducer or the grease of it.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4316	PRESSURE DATA LIMIT		Sub Code: Signifies the axis in which the alarm occurred	Setting error	Check the following settings. • The gun pressure file • The dry spotting pressure file *Reset the pressure value in the gun pressure file below the maximum pressure value
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4317	PRELOAD ERROR		Sub Code: Signifies the axis in which the alarm occurred	Effect of external force	Adjust the gun opening.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4318	SERIAL ENCODER CORRECTION LIMIT		Sub Code: Signifies the axis in which the alarm occurred	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. [Robot axis] • Cable between encoders • EAXA21-CN508 [External axis] • Cable between encoders • EAXB21-CN0534,535,536
				Module failure (encoder)	(1)Reset the alarm.(2)If the alarm occurs again, replace the encoder.
				EAXA21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA, EAXB board. Save the CMOS.BIN before replacing the board to be safe.

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code		other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4321	OVERLOAD (MOMENT)		Sub Code: Signifies the axis in which the alarm occurred	Setting error	Check the following settings. • The tools or the mass of the workpieces
				Interference error	Check if the manipulator interferes with any objects such as workpieces or peripheral devices. If interferes, remove the object.
				Setting error	Review the JOB to check if the load factor doesn't exceed 100%.
				YBK21 board failure	 (1)Check if the power has been supplied to the brake voltage of the following terminal. Check that the brake has not been locked due to malfunction of the contactor. YBK21-CN400 Motor brake terminal
					(2) If any error is found, replace the YBK21 board.
				Connection failure	(1)Reset the alarm.(2)If the alarm occurs again, replace the following cables.The wire harness in the robot.
				Module failure (motor)	(1)Reset the alarm. (2)If the alarm occurs again, replace the motor.
				EAXA21 board failure	(1)Reset the alarm.(2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replacing the board to be safe.
				YPU unit failure	(1)Reset the alarm.(2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replacing the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4322	AMPLIFIER OVERLOAD (CONTINUE)		Sub Code: Signifies the axis in which the alarm occurred	Setting error	Check the following settings. • The tools or the mass of the workpieces

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code		YBK21 board failure	(1)Check if the power has been supplied to the brake voltage of the following terminal. Check that the brake has not been locked due to malfunction of the contactor. • YBK21-CN400 • Motor brake terminal (2) If any error is found, replace the YBK21 board.
				Connection failure	(1)Reset the alarm.(2)If the alarm occurs again, replace the following cables.The wire harness in the robot.
				Module failure (amplifier)	(1)Reset the alarm. (2)If the alarm occurs again, replace the amplifier.
				EAXA21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replacing the board to be safe.
				YPU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replacing the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4324	CONVERTER OVERLOAD			Setting error	Confirm that the tool and workpiece in use don't exceed the permissible load. Adjust the JOB speed.
				Module failure (converter)	(1)Reset the alarm. (2)If the alarm occurs again, replace the converter.
				EAXA21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA21/EAXB21 board. Save the CMOS.BIN before replacing the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
4326	OVER SPEED	Code	Sub Code: Signifies the axis in which the alarm occurred	Setting error	If the alarm occurs at the same site, check the following setting. • Set the lower motion speed around the site where the alarm occurs. If the alarm occurs for the motor gun, check the following settings. • Setting of the touch speed • Setting of the touch pressure
				Connection failure	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, check the wiring of phase-U, -V, and -W is correct.
				Module failure (motor)	(1)Reset the alarm. (2)If the alarm occurs again, replace the motor.
				EAXA21 board failure	(1)Reset the alarm.(2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replacing the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4327	WRONG MOTOR ROTATION		Sub Code: Signifies the axis in which the alarm occurred	Connection failure	(1Reset the alarm. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. Motor power cable • Amplifier-CN584 • EX1SV(External axis servo pack)-CN595 • Power supply cable (Power cable) Encoder cable • EAXA21-CN508 • EAXB21-CN534,535,536
				EAXA21 board failure	(1)Reset the alarm.(2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replacing the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4328	SERVO TRACKING ERROR	Code	Sub Code: Signifies the axis in which the alarm occurred	Setting error	Check the following settings. • The tools or the mass of the workpieces
				Interference error	Check if the manipulator interferes with any objects such as workpieces or peripheral devices. If interferes, remove the object.
				Acceleration limit over	This alarm occurs when excessive load is applied to the motor upon the satisfactions of all the following conditions; • The acceleration/deceleration is automatically calculated by the manipulator's position at start/end point • The JOB is stopped by category 1 stop or HOLD stop • Compared to the start/end point, excessive load is applied to the motor according to the position <remedy> Adjust the acceleration/deceleration by ACC and DEC for the teaching position. Also, make sure to run the machine enough before operation when this alarm occurs at low temperature environment (ambient temperature: 10 °C)</remedy>
				Connection failure	(1Reset the alarm. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • Amplifier-CN584 • EX1SV(External axis servo pack)-CN595 • Motor power wiring • Power supply cable (Power cable)
				YBK21 board failure	 (1)Check if the power has been supplied to the brake voltage of the following terminal. Check that the brake has not been locked due to malfunction of the contactor. YBK21-CN400 Motor brake terminal (2) If any error is found, replace the YBK21 board.
				YPU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replacing the board to be safe.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				Module failure (motor)	(1)Reset the alarm. (2)If the alarm occurs again, replace the motor.
				EAXA21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode and then contact your Yaskawa representative about occurrence status (operating procedure).
		21	The motion speed at the center of the control point exceeded the specified max. speed.	Setting error	Check the following settings. • Reduction in the motion speed
				Setting error	Reset the alarm, and then try again.
				Connection failure	(1)Reset the alarm.(2)If the alarm occurs again, check that U-, V- and W-phase are appropriately connected.
				Module failure (motor)	(1)Reset the alarm. (2)If the alarm occurs again, replace the motor.
				EAXA21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode and then contact your Yaskawa representative about occurrence status (operating procedure).
		22	The motion speed at the center of the control point exceeded the specified max. speed.	Setting error	Check the following settings. • Reduction in the motion speed
				Setting error	Reset the alarm, and then try again.
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check that U-, V- and W-phase are appropriately connected.

Alarm Number	Alarm Name	rm Name Sub	Meaning	Cause	Remedy
		Code			
				EAXA21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replacing the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4337	OVERCURRENT (AMP)		Sub Code: Signifies the axis in which the alarm occurred	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. • EAXA21-CN501 to 506,CN510 • EAXB21-CN531,532,533 • Amplifier-CN581,582 • Converter-CN551,552A,552B • EX1SV (External axis SERVO PACK)-CN591,592,595
				Connection failure	(1)Reset the alarm.(2)If the alarm occurs again, replace the following cables.Manipulator cableSupply cable
				Module failure (amplifier)	(1)Reset the alarm. (2)If the alarm occurs again, replace the amplifier.
				Module failure (motor)	(1)Reset the alarm. (2)If the alarm occurs again, replace the motor.
				EAXA21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replacing the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4338	REGENERATIVE TROUBLE (CONVERTER)		Sub Code: Signifies the axis in which the alarm occurred	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. • EAXA21-CN507,510 • EAXB21-CN531,532,533 • Converter-CN557 • Cable between the regenerative resistors

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				High ambient temperature	Adjust the ambient temperature to 40°C or less.
				Voltage failure	Modify the primary breaker voltage to the specified voltage 200V(+10% to 5%).
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. • EAXA21-CN507,510 • EAXB21-CN531,532,533 • Converter CN551,553 • EX1SV (External axis SERVO PACK)-CN591,592
				Module failure (converter)	(1)Reset the alarm. (2)If the alarm occurs again, replace the converter.
				EAXA21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replacing the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4342	SV DRESS SPEED ERR		Sub Code: Signifies the axis in which the alarm occurred	Metal pieces getting into dresser blades	Check if metal pieces getting into dresser blades prevent the dresser from rotating.
				Setting error	Check if the "SPEED FLUCTUATION LIMIT" setting in TIP DRESS CONDITION file is too small.
				Connection failure	(1Reset the alarm. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • Amplifier-CN584 • EX1SV(External axis servo pack)-CN595 • Motor power wiring • Power supply cable (Power cable)

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				Connection failure	(1Reset the alarm. (2)If the alarm occurs again, check the connection and insertion of the following cables and connectors. • Amplifier-CN584 • EX1SV(External axis servo pack)-CN595 • Motor power wiring • Power supply cable (Power cable)
				YBK21 board failure	(1)Check if the power has been supplied to the brake voltage of the following terminal. Check that the brake has not been locked due to malfunction of the contactor. • YBK21-CN400 • Motor brake terminal (2) If any error is found, replace the YBK21 board.
				YPU unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YPU unit. Save the CMOS.BIN before replacing the board to be safe.
				Module failure (amplifier)	(1)Reset the alarm. (2)If the alarm occurs again, replace the amplifier.
				Module failure (motor)	(1)Reset the alarm. (2)If the alarm occurs again, replace the motor.
				EAXA21 board failure	(1)Reset the alarm.(2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replacing the board to be safe.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4344	LINEAR SERVOFLOAT TRACKING ERROR			Setting error	(1)Check the settings for jobs. (2)Reset the alarm.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4359	CONVERTER ERROR		Sub Code: Signifies the physical No. of converter in which the alarm occurred	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. • EAXA21-CN507,510 • EAXB21-CN531,532,533 • Converter CN551,553 • EX1SV (External axis SERVO PACK)-CN591,592
				Module failure (converter)	(1)Reset the alarm. (2)If the alarm occurs again, replace the converter.
				EAXA21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replacing the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4360	WAFER ALIGNMENT ERROR (SERVO)			Connection failure	Check the connection of pre-aligner.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4362	POWER SUPPLY READY ERROR (SERVO)			Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. • EAXA21-CN501 to 506,CN510 • EAXB21-CN531,532,533 • Amplifier-CN581,582 • Converter-CN551,552A,552B
				EAXA21 board failure	(1)Reset the alarm.(In case of major alarm, turn the power OFF then back ON.) (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replacing the board to be safe.
				Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4366	GUN BEND COMPENSATION SET ERROR		Sub Code: Signifies the group in which the alarm occurred	Setting error	Check if this model is supported.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4367	ROBOT POSE ERROR		Sub Code: Signifies the axis in which the alarm occurred	Setting error	(1)Check the teaching position. (2)In case the alarm occurs at SVSPOT or SVSPOTMOV instruction, if you disable the gun arm bend compensation by specifying the BCOFF tag to the instruction, the alarm won't occur.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4371	SYSTEM ERROR (SERVO)	161	Automatic test data error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		250	Control filter error.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		251	Control filter error.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		260	Control filter error.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		261	Control filter error.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
			EAXA21 board failure	EAXA21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replacing the board to be safe.
			EAXB21 board failure	EAXB21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXB21 board. Save the CMOS.BIN before replacing the board to be safe.
			other	other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4400	NOT READY (ARITH)	1	The arithmetic process for motion control did not complete within regulated time. No motion command was prepared.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	The arithmetic processing section is not ready for JOG operation.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	The arithmetic processing section is not ready for the playback operation.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	The pre-reading processing in the arithmetic processing section has not completed.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	The arithmetic processing section is not ready for the timer follow-up of the conveyor tracking function.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code 6	The pre-reading processing in the arithmetic processing section has not completed when specifying the target position.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4401	SEQUENCE TASK CONTR ERROR	1	Unused A_BANK does not exist in the pre-reading processing of move instruction.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Unused bank priority does not exist in the pre-reading processing of move instruction.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	A_BANK pointer is not set.	Software operation error occurred	(1)Reset the alarm, and then try again.(2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	A_BANK conversion could not be performed.	Software operation error occurred	(1)Reset the alarm, and then try again.(2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	The specified A_BANK number does not exist.	Software operation error occurred	(1)Reset the alarm, and then try again.(2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		20	An error occurred when system number (MSS) was obtained.	Software operation error occurred	(1)Reset the alarm, and then try again.(2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		21	An error occurred in RMS960 system call.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		33	System number (MSS) for interruption command is incorrect.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		38	An error occurred at start of twin synchronous operation.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		39	An error occurred when SYNC specification was reset.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		41	An error occurred in occupation control group setting in MOTION section.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		45	An error occurred in path/ trace control.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		47	An error occurred when waiting for a completion of main system task (job) in SYNC specification.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		48	An attempt was made to execute an instruction that could not be executed at line sequence execution.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		49	An error occurred while obtaining the instruction information.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		12	No master and slave designated for tracking motion	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4407	TWO STEPS SAME POSITION (CIRC)			Setting error	(1)Check the following settings.Check the settings for teaching position of circular interpolation steps so that each point is different.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4408	TWO STEPS SAME POSITION (SPLINE)			Setting error	(1)Check the following settings.Check the settings for teaching position of spline interpolation step so that each point is different.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4409	TWO STEPS SAME POSITION (3 STEPS)			Setting error	(1)Check the following settings.Check the settings for three taught points to create an user coordinate system so that each point is different.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4410	TWO STEPS SAME POSITION (WEAV)			Setting error	(1)Check the following settings.Check the settings for taught points (start, end, and reference points) so that each point is different.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4411	TEACH ERROR (SPLINE)			Setting error	(1)Check the following settings.Check the settings for the teaching position of spline interpolation section so that the distance between the teaching points is even.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		5	Interrupt processing error between MOTION section and SL#4	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	Interrupt processing error between MOTION section and CV#1	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	Interrupt processing error between MOTION section and CV#2	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	Interrupt processing error between MOTION section and PS#1	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		9	Interrupt processing error between MOTION section and PS#2	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4431	JHM ERROR	1	An error occurred in JMS system call when an attempt was made to open a job.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	No space was found in job handle value storage area when an attempt was made to open a job.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	No job handle was found.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		8	Box number definition is duplicated.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		9	Undefined instruction was found at block separation of intermediate code.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		10	IPRM is not set.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		11	An error occurred in tag data search process.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		12	An error occurred move instruction search process.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		14	Variable information does not exist.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		16	An error occurred at position file data reading.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		17	Variable data type is not defined.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		26	Arithmetic stack used for expression operation exceeded.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		27	Arithmetic stack used for expression operation is empty.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		28	Operation items are lacking in expression operation and operation processing cannot be performed.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		254	Access mechanism for old parameters is used.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		255	An exceptional error occurred.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4433	UNDEFINED GLOBAL VARIABLE	0	The set data for byte type variable area is incorrect.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1	The set data for integer type variable area is incorrect.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	The set data for double- precision integer-type variable area is incorrect.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	The real-number type variable is not defined.	Setting error	(1)Check the following settings.Set the number of local variables to be used in the job header.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	The character-string type variable is not defined.	Setting error	(1)Check the following settings.Set the number of local variables to be used in the job header.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	The robot-axis position-type variable is not defined.	Setting error	(1)Check the following settings.Set the number of local variables to be used in the job header.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	The base-axis position-type variable is not defined.	Setting error	(1)Check the following settings.Set the number of local variables to be used in the job header.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	The station-axis position-type variable is not defined.	Setting error	(1)Check the following settings.Set the number of local variables to be used in the job header.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4436	LESS THAN 3 STEPS (CIRCULAR)			Setting error	(1)Check the following settings. •Perform teaching so that circulation interpolation steps are continuous three points or more.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4444	UNSUCCESSFUL FINE POSITIONING		Sub Code: Bit specification of axis where error occurred	Effect of external force	(1)Check the following settings.Move the manipulator by the axis operation, etc. to remove the external force of axis where alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4445	DATA PRESET ERROR	1	The token for pre-reading processing could not be obtained.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	The pre-reading processing has not been completed within the time, and the waiting time for completion exceeded the limit.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	The pre-reading operation processing has not been completed within the time, and the waiting time for completion exceeded the limit.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	An error occurred in pre- reading operation process.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	A_BANK conversion has not been completed.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, turn the main power of controller off and then turn it on. Re-select the job from [selct job] window before starting the job again. (3)If the alarm occurs again even though you do above (2), save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		5	The value for the unsigned 2-byte data type variable is less than the minimum value.	Setting error	(1)Check the following settings.Check the settings for variable, and then correct the job to fall within the input range of the tag.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	The value for the signed 4-byte data type variable is less than the minimum value.	Setting error	(1)Check the following settings.Check the settings for variable, and then correct the job to fall within the input range of the tag.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	The value for the unsigned 4-byte data type variable is less than the minimum value.	Setting error	(1)Check the following settings.Check the settings for variable, and then correct the job to fall within the input range of the tag.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	The value for the real-number 4-byte data type variable is less than the minimum value.	Setting error	(1)Check the following settings.Check the settings for variable, and then correct the job to fall within the input range of the tag.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		14	The value for the character- string type variable is less than the minimum value.	Setting error	(1)Check the following settings.Check the settings for variable, and then correct the job to fall within the input range of the tag.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		32770	The value for the signed 1- byte data type variable exceeded the maximum value.	Setting error	(1)Check the following settings.Check the settings for variable, and then correct the job to fall within the input range of the tag.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		32776	The value for the real-number 4-byte data type variable exceeded the maximum value.	Setting error	(1)Check the following settings.Check the settings for variable, and then correct the job to fall within the input range of the tag.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		32782	The value for the character- string type variable exceeded the maximum value.	Setting error	(1)Check the following settings.Check the settings for variable, and then correct the job to fall within the input range of the tag.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4447	DEFECTIVE TAUGHT POINT (CIRC)	1	Starting point and destination point are the same position.	Setting error	Change the teaching points so that circular interpolation points do not to same.
		2	Any points of the circular interpolation are the same position.	Setting error	Change the teaching points so that circular interpolation points do not to same.
		3	Any points of the circular interpolation are the same position as the center position.	Setting error	Change the teaching points so that circular interpolation points do not to same as the center point of circular path.
		4	The three points taught for the circular interpolation points line in a straight line.	Setting error	Change the teaching points so that circular interpolation points do not line in a straight line.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		9	An error occurred in conveyor characteristic file number check.	Setting error	(1)Check the following settings.Confirm that the specified conveyor condition file number is 1 to 6.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		10	An error occurred in press characteristic file number check.	Setting error	(1)Check the following settings.Confirm that the specified press characteristic file number is 0 to 3.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		12	An error occurred in conveyor calibration file number check.	Setting error	(1)Check the following settings.Confirm that the specified conveyor calibration file number is 1 to 6.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		13	An error occurred in argument number check.	Setting error	(1)Check the following settings.Confirm that the argument number is 1 to 16.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		14	An error occurred in check for motor gun characteristic file number.	Setting error	(1)Check the following settings.Confirm that the specified servo gun characteristic file number is 1 to 24.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4451	UNDEFINED REFERENCE POINT		Sub Code: Reference point number in binary	Setting error	(1)Check the following settings.Set the reference point.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	The master group and the slave group are set to the same group.	Setting error	(1)Check the following settings.Set the different groups for the master group and the slave group.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	Incorrect designation of the control group for master group	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	Incorrect designation of the control group for slave group	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	Calibration data setting error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4470	ROBOT CARIB STEP NOT ENOUGH			Setting error	(1)Check the following settings.Check the settings for number of the job steps
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4471	ROBOT CALIBRATION DATA ERROR	1	Incorrect number of teaching points for tool calibration	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Incorrect designation of the occupation control group for calibration data	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4474	WRONG CONTROL GROUP AXIS		Sub Code: The related control-group	Setting error	 (1)Check the following settings. • Make the setting in advance so that the control group of the CALL/JUMP designation job is included in that of the CALL/JUMP source job. • Don't start the job which including control group under already operation by "PSTART" instruction.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4475	CANNOT EXECUTE JOB (NO ROBOT)			Setting error	 (1)Check the following settings. Add the robot axis to the control-group of the job. When MotoPlus function (option) is used, a robot which executed SKILLSND is not defined as using MotoPlus sensor related API. Check the combination of the robot and MotoPlus application. If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4476	CANNOT EDIT (EDIT LOCK JOB)	0	An attempt was made to change the tag data.	Setting error	(1)Check the following settings. • Release the prohibition.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1	An attempt was made to change the speed tag data.	Setting error	(1)Check the following settings. • Release the prohibition.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		2	The base axis is set as an Endless rotation axis. The Endless function cannot be used with the base axis.	Setting error	(1)Check the following settings.Check the parameter setting that designates the Endless rotation axis.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	An attempt was made to execute the Endless function although the endless axis was not designated.	Setting error	(1)Check the following settings.Check the parameter setting that designates the Endless rotation axis.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	The Endless axis exceeded the maximum pulse value (+-536870911).	Setting error	(1)Check the following settings.Set the rotation amount so that the Endless axis does not exceed the maximum pulse value.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4491	CORRECTIONAL DIRECTION ERROR	1	Control-group designation error for correcting-direction preparation	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Designation error for the correcting-direction coordinates	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	When "any direction" is set for the correcting direction, the correction coordinates is not prepared.	Setting error	(1)Check the following settings. •Check the settings for the correcting direction with the reference point (REFP).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4493	OVER TOOL FILE NO.			Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4494	DEFECTIVE TAUGHT POINT (WEAV)	1	The weaving start point and end point are on the same point.	Setting error	(1)Check the following settings.Check the settings for the positions so that the weaving start point and end point are different.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Among the weaving start point, end point, and reference point, two or three points are on the same point.	Setting error	(1)Check the following settings.Check the settings for the positions so that the weaving start point, end point, and reference point are different.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4495	UNDEFINED ROBOT CALIBRATION		Sub Code: Control group which calibration is not completed	Setting error	(1)Check the following settings. •Before using the coordinated motion, execute the calibration between manipulators.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4496	PARAMETER ERROR	1	The setting of the manipulator number is incorrect.	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Zero is set for the resolution.	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		27	Observer polarity setting error	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		28	The inertia value error for the shift value calculation	Setting error	(1)Reset the alarm, and then try again.(2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		29	Observer attenuation constant error	Setting error	(1)Reset the alarm, and then try again.(2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		30	Torque estimation parameter error	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		31	The segment clock error occurred when the PV loop is 1 ms.	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		32	Non-robot axis observer selection error	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		33	Zero is set for the response time constant.	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		34	Efficiency data error	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		35	Zero is set for the averaging time constant.	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		36	Torque limit ratio data error	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		37	Coulomb friction data error	Setting error	(1)Reset the alarm, and then try again.(2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		38	Kinematic friction coefficient data error	Setting error	(1)Reset the alarm, and then try again.(2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		39	The setting in the optimized acceleration/deceleration designation parameter is incorrect.	Setting error	(1)Reset the alarm, and then try again.(2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		40	An uninstalled function is designated.	Setting error	(1)Reset the alarm, and then try again.(2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		41	The dynamics-model calculation at the optimized acceleration/deceleration is invalid.	Setting error	(1)Reset the alarm, and then try again.(2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		42	Zero is set for the inertia of dynamics fixed model.	Setting error	(1)Reset the alarm, and then try again.(2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		43	Designation error for dynamics-model calculation type	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		44	The optimized acceleration/ deceleration control of speed limit function is disabled.	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		45	The axis designation parameter for the speed limit function is not set.	Setting error	(1)Reset the alarm, and then try again.(2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		46	The setting in the mode designation parameter for the speed limit function is incorrect.	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		47	Zero or negative value is set in the allowable braking torque parameter for the speed limit function.	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		48	Zero or a negative value is set in the speed adjustment ratio parameter for the speed limit function.	Setting error	(1)Reset the alarm, and then try again.(2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		49	Zero or a negative value is set in the torque limit adjustment ratio parameter for the acceleration/deceleration tuning.	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		50	Zero or a negative value is set in the parameter that sets the shortest acceleration/ deceleration time for when the excessive torque is applied at the optimized acceleration/ deceleration.	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		51	Zero is set for the dimension information "a3" for the SKR manipulator.	Setting error	(1)Reset the alarm, and then try again.(2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		52	The setting of sealer-gun control-group parameter for the servo sealer control is incorrect.	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		53	The parameter setting for the Cartesian manipulator X-axis data is incorrect.	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		54	The parameter setting for the Cartesian manipulator Y-axis data is incorrect.	Setting error	(1)Reset the alarm, and then try again.(2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		55	The setting for the Dual-arm manipulator is incorrect.	Setting error	(1)Reset the alarm, and then try again.(2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		56	Zero or a negative value is set in the FORMCUT maximum acceleration/deceleration time parameter.	Setting error	(1)Reset the alarm, and then try again.(2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		57	The setting of expanded check-point designating bits for the arm interference check is incorrect.	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
lumber		Code			
		121	Incorrect parameter setting to inertia speed control function.	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		122	Incorrect acceleration/ deceleration time setting at tool mass acceleration/ deceleration speed correction function.	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		123	Incorrect coefficient/item settings at tool mass acceleration/deceleration speed correction function.	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		124	No tool mas as the minimum acceleration/deceleration time at tool mass acceleration/ deceleration speed correction function.	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		125	Incorrect speed setting at tool mass acceleration/ deceleration speed correction function.	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		126	Incorrect coefficient/item settings at tool mass acceleration/deceleration speed control function.	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		127	No tool mass as the maximum acceleration/deceleration time at tool mass acceleration/ deceleration speed control function.	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		129	An error in the standard arithmetical axis number setting for approximation model.	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		138	Notch filter supported acceleration and deceleration tuning: Notch filter function setting error	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		139	Notch filter supported acceleration and deceleration tuning: Notch filter (z2) setting error	Setting error	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		147	NON ACTIVATION of Servo Simulation function error	Setting error	(1)Check the following settings.Enable Servo Simulation Function.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		149	The setting error of vibration suppression filter for SVSPOTMOV	Setting error	(1)Check the following settings.Confirm that the threshold value for the vibration suppression filter should be larger than the one in previous table.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		150	the setting error of time constant for the vibration suppression filter for SVSPOTMOV	Setting error	(1)Check the following settings. Confirm that the time constant for vibration suppression filter for SVSPOTMOV must be the different value of Kp.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		152	the setting error of the number for vibration suppression filter for SVSPOTMOV	Setting error	(1)Check the following settings. Confirm that the number of the tables activated for vibration filter is less than 5.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code		other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	The 1st-axis rotation direction of C3, C4, and C5 of station axes are not the same.	Setting error	(1)Check the following settings.Perform the teaching again so that the 1staxis rotation direction of C3, C4, and C5 of station axes are the same.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	The 1st-axis (elevation axis) positions of C1, C2, and C3 of station axes are not the same.	Setting error	 (1)Check the following settings. Perform the teaching again so that the 1staxis (elevation axis) positions of C1, C2, and C3 of station axes are the same.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	The 1st-axis (elevation axis) positions of C3, C4, and C5 of station axes are not the same.	Setting error	(1)Check the following settings.Perform the teaching again so that the 1staxis (elevation axis) positions of C3, C4, and C5 of station axes are the same.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4498	CANNOT EXECUTE JOB (NO GRP AXIS)		An attempt was made to execute an instruction that could not be executed in a job without control group.	Setting error	(1)Check the following settings.Check the settings for the job instruction with control group.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4499	UNDEFINED POSITION VARIABLE		Sub Code: The variable number	Setting error	(1)Check the following settings.Check the settings for the position type variable.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code		other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4508	SPECIFIED ERROR (COORDINATE)	0	The specified coordinate system does not exist.	Setting error	(1)Check the following settings.Check the settings for the coordinate system which can be used.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1	Designation error of the master tool coordinate system. This coordinate system cannot be used.	Setting error	(1)Check the following settings.Check the settings for the coordinate system which can be used.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Designation error of the tool coordinate system. This coordinate system cannot be used.	Setting error	(1)Check the following settings.Check the settings for the coordinate system which can be used.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	Designation error of the direction of travel coordinate system (for a shared function). This coordinate system cannot be used.	Setting error	(1)Check the following settings.Check the settings for the coordinate system which can be used.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		10	Designation error of the cylindrical coordinate system. This coordinate system cannot be used.	Setting error	(1)Check the following settings.Check the settings for the coordinate system which can be used.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		11	Designation error of the coordinate system for the external reference point. This coordinate system cannot be used.	Setting error	(1)Check the following settings.Check the settings for the coordinate system which can be used.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		12	Designation error of the coordinate system for 3D shifting. This coordinate system cannot be used.	Setting error	(1)Check the following settings.Check the settings for the coordinate system which can be used.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		13	Designation error of the KOMATSU tool Z-direction operation coordinate system. This coordinate system cannot be used.	Setting error	(1)Check the following settings.Check the settings for the coordinate system which can be used.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4510	CANNOT EXECUTE INSTRUCTION (SQRT)			Setting error	(1)Check the following settings.Check the job settings so that the second argument of SQRT instruction does not become negative.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4511	OUT OF RANGE (DROP-VALUE)		Sub Code: Control group exceeding the allowable value	Setting error	(1)Check the following settings.Confirm the load setting to the robot.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4512	TWO STEPS SAME LINE (3 STEPS)			Setting error	(1)Check the following settings.Check the settings so that the teaching points are not aligned in a straight line.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4513	EXCESSIVE SEGMENT (SAFETY 1): LOW/ HIGH		Sub Code: Control group and axis	Setting error	 (1)Check the following settings. Reduce the speed of the step where the alarm occurred. Change the move instruction to joint interpolation (MOVJ). * Be careful to the peripheral interference since its movement changes.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4515	EXCESSIVE SEGMENT (SAFETY 2): LOW/ HIGH		Sub Code: Control group and axis	Setting error	 (1)Check the following settings. Reduce the speed of the step where the alarm occurred. Change the move instruction to joint interpolation (MOVJ). * Be careful to the peripheral interference since its movement changes.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4528	SYNTAX ERROR	1	A syntax error was found in the IF sentence.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4529	TWIN COORDINATED ERROR	1	A job without control group was started by SYNC instruction.	Setting error	(1)Check the following settings.Check the control group setting of the job to be started by SYNC.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	A job only with robot axes was started by SYNC instruction.	Setting error	(1)Check the following settings.Check the control group setting of the job to be started by SYNC.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	A job only with master control group axes was started by SYNC instruction.	Setting error	(1)Check the following settings.Check the control group setting of the job to be started by SYNC.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	At full synchronization, the completion timings of move instructions for the master and the slave disagreed.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	At full synchronization, no operation request from the master was sent.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	At full synchronization, the execution timings of move instructions for the master and the slave disagreed.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	There was no conveyor start position data at pre-reading processing.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		10	No base axis in the job for arc tracking	Setting error	(1)Check the following settings.Correct the job setting so that the arc tracking is executed in the job where robot axis exists.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4531	UNDEFINED CONVEYOR COND FILE		Sub Code: Conveyor characteristic file number	Setting error	(1)Check the following settings. • Set "Use state" of conveyor characteristic file to "1: Use."
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4532	CONVEYOR SPEED DOWN		Sub Code: Conveyor number	Setting error	(1)Check the following settings.Correct the "Conveyer Lowest Speed" set in the conveyer characteristic file.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4533	ARITHMETIC ERROR (CV TRACKING)	1	Designation error of the conveyor tracking control-group	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Designation error of the user coordinates for the conveyor tracking	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	An attempt was made to obtain the double-precision integer-type system variable by the other type variable.	Setting error	(1)Check the following settings.Obtain as the double-precision integer-type variable.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	An attempt was made to obtain the real-number type system variable by the other type variable.	Setting error	(1)Check the following settings.Obtain as the real-number type variable.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	An attempt was made to obtain the character-string type system variable by the other type variable.	Setting error	(1)Check the following settings.Obtain as the character-string type variable.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4538	ROBOT AXIS TRACKING INVALID	0	"SYMOVJ" instruction is executed at robot-axis tracking.	Setting error	(1)Check the following settings.Do not use "SYMOVJ" instruction in robot axis tracking.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4539	CORNER R CONTROL ERROR	1	The Corner-R motion cannot be used for coordinated motion.	Setting error	(1)Check the following settings.Do not use the Corner-R motion for coordinated motion.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	An attempt was made to execute the Corner-R motion for the same point.	Setting error	(1)Check the following settings.Check the settings for the teaching so that the start step and end step are not on the same point.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	The Corner-R zone is taught on a straight line.	Setting error	(1)Check the following settings.Check the settings for teaching so that the Corner-R zone is not on a strait line.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	The start position or end position for the Corner-R motion could not be calculated inside the start zone or the end zone.	Setting error	 (1)Check the following settings. • Make the setting for the Corner-R radius small. • Make the moving amount of the Corner-R start step long. • Make the moving amount of the Corner-R start end long.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	The Corner-R motion cannot be used for coordinated motion (with master manipulators).	Setting error	(1)Check the following settings.Do not use the Corner-R motion for master manipulators at coordinated motion.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	The Corner-R motion cannot be used for MOVC, MOVS, and EIMOVC instructions.	Setting error	(1)Check the following settings.Use a MOVL instruction when using the Corner-R motion.

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code 2	The observer function is not used.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	The TURBO function is not used.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	The COMARC function is not used.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	The conveyor/press synchronization function is not used.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	The shared motion function is not used.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	The layer motion function is not used.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	The general sensor function is not used.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		9	The servo float function is not used.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		18	The ME-NET function is not used.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		19	The MEMO-PLAY function is not used.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		20	The 3D-SHIFT function is not used.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		21	The Equalization function is not used.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		255	An attempt was made to execute an undefined instruction.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4566	USER FRAME MAKING ERROR	1	The teaching points are incorrect.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	The teaching points for user- coordinate turning are incorrect.	Setting error	 (1)Check the following settings. Among three taught points in the teaching position. Teach the three points again so that they do not lie in the straight line.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	The robot axis is not specified for the control group of the job to prepare the user coordinates.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		5	Position data error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	Setting error of the slave group for user coordinate conversion	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4567	CANNOT MONITOR DISTANCE			Setting error	 (1)Check the following settings. Change the interpolation instruction to MOVL/MOVC. Change the setting so that the arc retry or restart operation does not perform.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4568	UNDEFINED PRESS COND DATA FILE		Sub Code: Press characteristic file number	Setting error	(1)Check the following settings. •Set the status of press characteristic file to be used in the job to "Used State."
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4569	UNDEFINED PRESS RESOLUTION DATA		Sub Code: Press characteristic file number	Setting error	(1)Check the following settings.Set the press resolution data to be used in the job.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4571	SERVO FLOAT MODE RELEASE ERR			Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4572	NO SERVO GUN CONTROL GROUP			Setting error	(1)Check the following settings.Set the "motor gun axis" in the control group setting of maintenance mode.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4573	SPOT WELDER NO. ERROR		Sub Code: Welder number	Setting error	(1)Check the following settings.Correct the welder number set in the gun characteristic file.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4574	SPOT WELD COMPLETE TIME LIMIT		Sub Code: Welder number	Setting error	 (1)Check the following settings. Turn ON the timer contactor power. If the response from the timer takes too long time due to the system layout, increase the timeout time.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4575	ERROR IN WELD START TIMING SET			Setting error	(1)Check the following settings.Check the settings for the "WST" tag.Check the settings for the pressure file.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4576	ERR IN MOTOR GUN CONT MODE			Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4577	ERR IN MOTOR GUN MODE RELEASE			Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4578	SPOT WELD ERROR		Sub Code: Welder number	Setting error	(1)Check the following settings.Check the settings for the timer conductor where the welding error occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		Code		other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4579	ANTICIPATION CONTROL ERROR	1	No availability in anticipation control	Setting error	(1)Check the following settings.Maximum simultaneous execution number of anticipation control is five. Correct the settings for the job so that it is within five.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	The anticipation data exceeded the maximum length.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4580	ANTICIPATION DISTANCE NOT ENOUGH			Setting error	(1)Check the following settings.Operate the manipulator to the start position of the step where the alarm occurred, and then re-execute.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4581	DEFECTIVE ANTICIPATION OT FILE	1	Incorrect setting of OT output number for anticipation output file	Setting error	(1)Check the following settings.Check the setting value of OT output number.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Incorrect setting of OG output number for anticipation output file	Setting error	(1)Check the following settings.Check the setting value of OG output number.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4583	CANNOT EXECUTE GUN TYPE			Setting error	(1)Check the following settings.Check the settings for the motion mode set to the gun.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4584	STRWAIT TIME LIMIT			Setting error	(1)Check the following settings.Check the cause such as defective limit switch.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4585	SERVO PG ON ERROR			Connection failure	(1)Reset the alarm, and then try again.(2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors.Each axes encoder cable
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4587	MOTOR GUN CHANGE ERROR	1	A GUNCHG instruction was executed in the system configuration that did not allow the gun change function.	Setting error	(1)Check the following settings.Validate the gun change parameter.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	A GUNCHG/PICK instruction was executed while the motor gun motor was servo ON.	Setting error	(1)Check the following settings.Execute GUNCHG/PICK instruction when the motor gun motor is servo OFF.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	A GUNCHG/PICK instruction was executed while the ATC was in unchuck status.	Setting error	(1)Check the following settings. • Execute GUNCHG/PICK instruction when the ATC is in chuck status.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		9	The right and left gun axis selection signals were duplicated when executing the twin-wrist gun change.	Setting error	(1)Check the following settings.Check the setting for the gun axis selection signal.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		10	The control group for gun axis is not set in the gun change job.	Setting error	(1)Check the following settings.Check the settings for the control-group of the job.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		11	Multiple manipulators are not set in the gun change job.	Setting error	(1)Check the following settings.Check the settings for the control-group of the job.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4589	ABRASION BASIS POS UNSETTING			Setting error	(1)Check the following settings.Resister the reference position of wear correction.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4590	NO SERVO HAND CONTROL GROUP			Setting error	(1)Check the following settings.Set the "servo hand axis" in the control group setting of maintenance mode.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		2	The setting for width is incorrect. (1) For a rectangle, it is incorrectly set as: width < 1.0, width > sqrt (maximum diameter2 - height2), or width > maximum diameter. (2) It is incorrectly set as: width < 0, width > maximum diameter -2 * radius.	Setting error	(1)Check the following settings. • Setting of the width data
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	The setting for height is incorrect. (1) For a rectangle, it is incorrectly set as: height > maximum diameter, height < minimum diameter/2, or height > sqrt (maximum diameter ² - width ²).	Setting error	(1)Check the following settings. • Setting of the height data
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	The setting for the corner radius is incorrect. (1) For a rectangle, it is incorrectly set as: corner radius > width/2 or corner radius > height/2.	Setting error	(1)Check the following settings. • Setting of the corner radius
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		94	Because the designated plane included reference points at special circular interpolation motion, the arc center coordinates could not be calculated. Incorrect teaching of the reference point 2 may be the cause.	Setting error	(1)Check the following settings. • Setting of the reference point 2
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		100	The arc center position is not set for the special circular interpolation motion.	Setting error	(1)Check the following settings.Check the settings for the reference point 1 as the arc center position.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4596	FORMCUT ERROR	1	An attempt was made to re- execute the FORMCUT instruction after interrupting it.	Execute condition failure	(1)Check the following settings. • Re-execute the move instruction executed before the FORMCUT instruction, and then execute the FORMCUT instruction again.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4597	OFFLINE POSITION DATA CONVERT ERR	1	Incorrect information of reference position data for offline position data conversion	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Incorrect user-coordinate number designation in the standard position data for offline position data conversion	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Gode 9	The position conversion could not be done in the designated coordinate system at the offline position data conversion.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		10	Incorrect incremental value of angle for offline position data conversion	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		11	The position data could not correctly be added by the incremental value of angle at the offline position data conversion.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		12	The reverse shift value for 3D shifting could not correctly be calculated at the offline position data conversion.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		13	The reverse shift value for 3D shifting could not correctly be added at the offline position data conversion.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		14	The reverse shift value could not correctly be calculated at the offline position data conversion.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		15	The reverse shift value could not correctly be calculated at the offline position data conversion.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		16	The 3D shifting value could not correctly be added at the offline position data conversion.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	The control group in the memory play file did not agree with the control group of execution job.	Setting error	(1)Check the following settings.Check the control group setting of the used memory play file.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	An attempt was made to clear the memory play file by a CLEAR instruction before having executed a MEMOF instruction.	Setting error	(1)Check the following settings. • Execute the MEMOF instruction, and then execute the CLEAR instruction.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4610	MEMOPLAY SAMPLING ERROR	1	Failed to read the memory play sampling data.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Failed to write the memory play sampling data.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	Failed to seek the memory play sampling data.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	Failed to read the memory play file.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		5	Incorrect mode setting at memory play sampling	Setting error	(1)Check the following settings.Check the settings for the memory play mode.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	Incorrect designation of the control group at memory play sampling	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	Designation of the control group in the memory play file did not agree with the designation of the control group at MEMON instruction execution (when the start point was specified).	Setting error	(1)Check the following settings. • Check the number of the memory play file for use.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		8	Designation of the control group in the memory play file did not agree with the designation of the control group at MEMON instruction execution (at initialization).	Setting error	(1)Check the following settings. • Check the number of the memory play file for use.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		9	designation of the control group in the memory play file did not agree with the designation of the control group at MEMON instruction execution (at continue).	Setting error	(1)Check the following settings.Check the number of the memory play file for use.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4615	I/O AXIS OPERATING		An attempt was made to command a job whose control group was in I/O axis motion.	Setting error	 (1)Check the following settings. Does not the I/O axis motion executed for the control group that executing the job? Does not the job executed for the control group that operating by the I/O axis motion? The control group where the I/O axis is operating cannot execute the job. Moreover, the I/O axis motion cannot perform for the control group where the job is executing.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4616	AXIS SHIFT ERROR	1	The file could not be switched because of incorrect start point designation.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	The control group with which the axis shifting is performed disagrees with the control group set for the axis shifting function in the calibration file.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	The calibration file number for axis shifting function is out of the applicable range.	Setting error	(1)Check the following settings.Correct the settings for the OPTON instruction tag so that value of the file number specification is 1 to 32.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4617	S/U IMPOSSIBLE MOVE (L/R POS)	1	For the CSL15D manipulator, the motion speed of S- and U-axes exceeded the upper limit.	Setting error	 (1)Check the following settings. Reduce the teaching speed of S- and U-axes. Teach the positions of L- and R-axes again so that S- and U-axes can move.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
4621	WELD COMPLETE SIGNAL ERROR		Sub Code: Welder number	Setting error	(1)Check the following settings.Check the settings for welding completion signal.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4622	SELF- INTERFERENCE		Sub code: Group&Axis(Interfering)&Axis(Interfered)	Setting error	 (1)Check the following settings. Change the teaching so that each part of the manipulator specified by sub code will not interfere. Check if the tool model (Tool interference file) displayed by sub code is correctly set.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4623	WRONG EXECUTION OF GETPOS INST	1	An attempt was made to obtain the step that used a local position type variable. (The step with local position type variable cannot be fetched. Example: MOVJ LP000 VJ=25.00)	Setting error	(1)Check the following settings.Check the settings for the GETPOS instruction.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	An attempt was made to obtain the step that used a local position type variable. (The step with local position type variable cannot be fetched. Example: MOVJ LP000 VJ=25.00)	Setting error	(1)Check the following settings. • Check the settings for the GETPOS instruction.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		-4	The disk is full.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-5	The directory is full.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-6	I/O error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-7	Invalid handle	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-8	Handle overflow	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-9	File has already been opened.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-10	File attribute error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-11	Open mode error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		-35	No specified partition number	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-36	Cluster size error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-37	Incorrect number of sectors	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-38	Sector/byte error	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-40	Card not applicable for I/O	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-41	Unsupported version	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-42	The setting register did not exist.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		-43	Card not applicable for ATA	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		Code		other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4633	FOLLOWING ERROR	1	An error occurred when executing a FOLLOW instruction. An attempt was made to reexecute the FOLLOW instruction after interrupting it.	Setting error	(1)Check the following settings. • Re-execute the move instruction executed before the FOLLOW instruction, and then execute the FOLLOW instruction again.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4634	FOLLOWING SPEED OVER			Setting error	(1)Check the following settings.Reduce the bending speed.Reduce the manipulator moving distance.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4635	CANNOT EXECUTE COMMON JOB		Sub Code: The related control-group	Setting error	(1)Check the following settings.Check the settings for control group specified by the CALL instruction.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4636	THICKNESS ERROR		Sub code: Gun number	Setting error	(1)Check the following settings.Weld the spot by thickness within allowable range.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4637	TRACK CHG WORK IN/NOT NOT FOUND		Sub Code: Conveyor characteristic file number	Setting error	(1)Check the following settings.Check the workpiece presence/absence and data settings for the synchronization section.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4650	TRQ CLEAR ERROR			Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4651	PALLETIZING EXECUTE ERROR	1	The setting of the palletizing condition configuration file is incomplete.	Setting error	(1)Check the following settings.Set the palletizing condition setting file to "Completed".
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	Palletize completion universal output number range exceeds the limit.	Setting error	 (1)Check the following settings. Change the palletize completion universal output signal number of the palletizing condition setting file in the user output signal point of contact number.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5	During the palletize start instruction execution, the palletize start instruction is executed again (double execution).	Setting error	(1)Check the following settings.Delete the palletize start instruction in the palletize section.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	The value of the palletizing number present value output register (or I variable) is more than the total number output register (or I variable).	Setting error	(1)Check the following settings. • Check if the palletizing number of current position output register (or I variable) and total number of output register (or I variable) is not changed by another function.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		65535	An attempt was made to change the value of the register currently used by TMR/CNT.	Setting error	(1)Check the following settings.Correct the setting of tag that specifies register number of SETREG instruction.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4655	WRONG EXECUTION OF GETREG INST	65535	An attempt was made to acquire the value of the register not existing.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4656	WRONG EXECUTION OF SETPRM INST	1	An attempt was made to change a parameter other than the cube-related parameter.	Setting error	 (1)Check the following settings. The SETPRM instruction cannot change the parameter values other than the parameter related to the cube. Correct the setting of tag that specifies parameter number of SETPRM instruction.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	The SETPRM instruction was executed while another system was in execution.	Setting error	(1)Check the following settings.The SETPRM instruction cannot execute while another system is operating. Correct the job.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4657	WVADJ ERROR	1	The correction amplitude value did not fall in the limit range.	Setting error	(1)Check the following settings.Correct the settings for "groove width correction limit value" specified for S2C1259 and 1260.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4658	OVER SPEED LIMIT	1	The taught speed was going to exceed the limit during the multi arm simultaneous operation.	Setting error	 (1)Check the following settings. Reduce the teaching speed of the step where the alarm occurred to the speed limit or less.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4666	UNDEFINED WELD LENGTH CHECK FILE			Setting error	(1)Check the following settings.Complete the settings for the weld length check condition file.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4667	DEFECTIVE GUN PRESSURE FILE		Sub Code: Gun pressure file number	Setting error	(1)Check the following settings.Match the number of "END WAIT" in the gun pressure file, and the number of "Welding Conditions(WTM)" in the instruction.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4668	MEMORY ERROR (PREVENTION FILE)			Data error	(1)Reset the alarm.(2)If the alarm occurs again, initialize the maintenance prevention file in maintenance mode, and then load the maintenance prevention file saved in the external memory device.
				YCP21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YCP21 board. Save the CMOS.BIN before replace the board to be safe. Replace the YCP21 board, and then insert the CF card which inserted original YCP21 board into the new YCP21 board.
				YIF01 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN saved before alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4669	DETECT BRAKE SLIP		Sub Code: Signifies the axis in which the alarm occurred	Module failure (motor)	(1)Reset the alarm.(2)If the alarm occurs again, replace the motor.(3)If the alarm of "external brake" is occurred, replace the external brake.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
4676	BROKEN FAN FUSE	1	Sub Code 1to 8: Signifies the EAXA/EAXB board No. in which the alarm occurred	Connection failure	(1)Reset the alarm.(2)If the alarm occurs again, check if there is a ground fault or short circuit in the fan power line.
				Fuse failure	(After cancellation of the short-circuit and ground fault) Replace the fuse.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Sub Code 1to 8: Signifies the EAXA/EAXB board No. in which the alarm occurred	Connection failure	(1)Reset the alarm.(2)If the alarm occurs again, check if there is a ground fault or short circuit in the fan power line.
				Fuse failure	(After cancellation of the short-circuit and ground fault) Replace the fuse.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	Sub Code 1to 8: Signifies the EAXA/EAXB board No. in which the alarm occurred	Connection failure	(1)Reset the alarm.(2)If the alarm occurs again, check if there is a ground fault or short circuit in the fan power line.
				Fuse failure	(After cancellation of the short-circuit and ground fault) Replace the fuse.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	Sub Code 1to 8: Signifies the EAXA/EAXB board No. in which the alarm occurred	Connection failure	(1)Reset the alarm.(2)If the alarm occurs again, check if there is a ground fault or short circuit in the fan power line.
				Fuse failure	(After cancellation of the short-circuit and ground fault) Replace the fuse.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YSF25 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4693	F-SAFE READBACK PROC. ERROR	0	Readback value of CPU1 and CPU2 mismatch.	Data error	(1)Reset the alarm. (2)Try the write operation again.
				YSF25 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1	Another readback request was issued to the readback process. (Parameter)	Software operation error occurred	(1)Reset the alarm. (2)Try the write operation again.
				YSF25 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Another readback request was issued to the readback process. (File)	Software operation error occurred	(1)Reset the alarm. (2)Try the write operation again.
				YSF25 board failure	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
4696	TURN TABLE CALIBRATION ERROR	1	There was the same point in three points where the calibration had been executed.	Setting error	(1)Check the following settings.Correct the calibration position so that each point is different.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	The three points where the calibration had been executed lie in a straight line.	Setting error	(1)Check the following settings.Check the calibration position so that the three taught points are not aligned in a straight line.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	The three points where the calibration had been executed lie in a straight line.	Setting error	(1)Check the following settings.Check the calibration position so that the three taught points are not aligned in a straight line.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4697	OFFLINE ARM BEND POS CONVERT ERR	1	Incorrect information of standard position data for offline arm bend position data conversion	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Incorrect user-coordinate number in the standard position data for offline arm bend position data conversion	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	Incorrect reference-point data offline arm bend position data conversion	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
		8	The position data could not be converted correctly for the Cartesian incremental value at the offline arm bend position data conversion.	Setting error	 (1)Check the following settings. The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		9	The position conversion could not be done in the conversion data for offline arm bend position data conversion.	Setting error	 (1)Check the following settings. The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		10	Incorrect incremental value of angle for offline arm bend position data conversion	Setting error	 (1)Check the following settings. The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		11	The position data could not be converted correctly for the incremental value of angle at the offline arm bend position data conversion.	Setting error	 (1)Check the following settings. The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		12	The gravity moment for offline arm bend position data conversion could not be calculated.	Setting error	 (1)Check the following settings. The variable position may be out of the robot motion range. Check if the variable position is within the robot motion range.

Alarm	Alarm Name	Name Sub Meaning	Meaning	Cause	Remedy
Number		Code			
		1043	Failed in the request error.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1044	Failed in the request error.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1059	In a RC connect management task, undefined error detected.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1060	Failed in the ID take of the RC server task.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1061	Failed in the mail take of the RC server task.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1062	In a RC server task, request mail data error detected.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1063	Answer data area overflow.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1064	In a RC server task, receive data area overflow.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		2065	Detect RC server task send error.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2066	Failed in the endian conversion.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2085	Detect file server task send error.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2086	Failed in the endian conversion.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2087	In a file server task, answer data error detected.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2088	Failed in the endian conversion.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2089	In a file server task, answer data area overflow.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2098	Failed in the status error occurred.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		510	In a RC task, undefined error detected.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		511	In a RC task, request command error detected.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		512	In RC task, there is not the class entry of the request command.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		513	In RC task, there is not the service entry of the request command.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1130	In a high speed Ethernet task, request mail error detected.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1131	In a high speed Ethernet task, request command error detected.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1132	In a file task, mail receive error occurred.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2140	In a file task, file reading error occurred.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		3165	In a file task, received data unmatched.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3166	In a file task, receive data size overflow occurred.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3167	In a file task, received data size set to zero occurred.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3168	In a file task, reply head error occurred.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3169	In a file task, reply status error occurred.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5530	In a RC task, interface request error occurred.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5531	In a RC task, interface answer error occurred.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		5532	In a RC task, interface data area overflow occurred.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		7550	In a RC task, request send error occurred.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7551	Failed in the endian conversion.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7560	In a RC task, reply packet error detected.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7561	In a RC task, reply take error detected.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7562	Failed in the endian conversion.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7563	Detect time out.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7564	In a RC task, receive data area overflow detected.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7565	In a RC task, received data unmatched.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		2	Brake slip detection could not be executed in the specified axis.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		3	Holding torque data which is calculated by the brake slip detection is incorrect.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	Detection torque data which is calculated by the brake slip detection is incorrect.	Software operation error occurred	(1)Reset the alarm, and then try again. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about
		5	The torque value for the brake slip detection device is not set.	Software operation error occurred	(1)Reset the alarm. (2)Check the following settings. • Check torque value
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		6	Holding torque data which is calculated by the brake slip detection exceeds the limit.	Software operation error occurred	(1)Reset the alarm. (2)Check the following settings. • Check torque value
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		7	The parameter of the pulse operation exceeds the limit.	Software operation error occurred	(1)Reset the alarm. (2)Check the following settings. • Pulse operation (S1CxG512 to 519)
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
4743	M-SAF EXESP SIG. ERROR		External emergency stop signal was unmatched for a certain time.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. • YFC22 • YSF22-YFC22 cable • Check connectors of the connected outside devices of EXTERNAL EMERGENCY STOP signal line.
				Hardware failure	(1)Reset the alarm.(2)If the alarm occurs again, replace the external emergency stop switch.
				YSF21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF21 board.
				YSF22 board failure	 (1)Reset the alarm. (2)If the alarm occurs again, replace the YSF22 board. In a system where a plurality of YSF22 boards are connected, replace the YSF22 board which is connected to the first EAXA21 board.
				YFC22 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YFC22 board. In a system where a plurality of YFC22 boards are connected, replace the board, which is connected to the XIN signal on which the alarm occurred.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4744	M-SAF PP ENABLE SW SIG. ERROR		The enable switch signal of PP was unmatched for a certain time.	Programing pendant illegal operation	There are two contact points for an enable switch, and only one point may be turned on by how to squeeze it or when putting it on the place where it is not a plane such as on the knee etc. Check how to squeeze or put the programming pendant on flat.
				Programming pendant failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the programming pendant.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				Connection failure	 (1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. Replace the cable of the programming pendant. YSF22-CN218
				YSF21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF21 board.
				YSF22 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF22 board. In a system where a plurality of YSF22 boards are connected, replace the YSF22 board which is connected to the first EAXA21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4745	M-SAF EX ENABLE SW SIG. ERROR		External Enable signal was unmatched for a certain time.	Connection failure	 (1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. YFC22 YSF22-YFC22 cable Check connectors of the connected outside devices of EXTERNAL ENABLE SWITCH signal line.
				Hardware failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the external enable switch.
				YSF21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF21 board.
				YSF22 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF22 board. In a system where a plurality of YSF22 boards are connected, replace the YSF22 board which is connected to the first EAXA21 board.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YFC22 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YFC22 board. In a system where a plurality of YFC22 boards are connected, replace the board, which is connected to the XIN signal on which the alarm occurred.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4746	M-SAF SAFETY FENCE SIG. ERROR		Safety fence signal is unmatched for a certain time.	Connection failure	 (1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. YFC22 YSF22-YFC22 cable Check connectors of the connected outside devices of SAFETY FENCE signal line.
				YSF21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF21 board.
				YSF22 board failure	(1)Reset the alarm.(2)If the alarm occurs again, replace the YSF22 board.In a system where a plurality of YSF22 boards are connected, replace the YSF22 board which is connected to the first EAXA21 board.
				YFC22 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YFC22 board. In a system where a plurality of YFC22 boards are connected, replace the board, which is connected to the XIN signal on which the alarm occurred.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
4750	M-SAF GENERAL INPUT SIG. ERROR		The meaning of each sub code is as follows: 1:GSIN1 2:GSIN2	Connection failure	 (1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. YFC22 YSF22-YFC22 cable Check connectors of the connected outside devices of GSIN signal line.
				YSF21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF21 board.
				YSF22 board failure	(1)Reset the alarm.(2)If the alarm occurs again, replace the YSF22 board.In a system where a plurality of YSF22 boards are connected, replace the board on which the alarm occurred.
				YFC22 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YFC22 board. In a system where a plurality of YFC22 boards are connected, replace the board, which is connected to the GSIN signal on which the alarm occurred.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4751	YSF24 GENERAL INPUT SIG. ERROR		The meaning of each sub code is as follows: 1:XIN1 2:XIN2 3:XIN3 4:XIN4 5:XIN5 6:XIN6 7:XIN7 8:XIN8	Connection failure	 (1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. YFC24 YSF22-YFC24 cable Check connectors of the connected outside devices of XIN signal line.
				YSF21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF21 board.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YSF24 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF24 board. In a system where a plurality of YSF24 boards are connected, replace the board, which is connected to the XIN signal on which the alarm occurred.
				YFC24 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YFC24 board. In a system where a plurality of YFC24 boards are connected, replace the board, which is connected to the XIN signal on which the alarm occurred.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4752	M-SAF PPESP DIAG. ERROR		Sub code indicates the process that the software of CPU1 or CPU2 detected an error.	YSF21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF21 board.
				YSF22 board failure	 (1)Reset the alarm. (2)If the alarm occurs again, replace the YSF22 board. In a system where a plurality of YSF22 boards are connected, replace the YSF22 board which is connected to the first EAXA21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4753	M-SAF PBESP DIAG. ERROR		Sub code indicates the process that the software of CPU1 or CPU2 detected an error.	YSF21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF21 board.
				YSF22 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF22 board. In a system where a plurality of YSF22 boards are connected, replace the YSF22 board which is connected to the first EAXA21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number 4757	M-SAF SAFETY GUARD DIAG. ERROR	Code	Sub code indicates the process that the software of CPU1 or CPU2 detected an error.	YSF21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF21 board.
				YSF22 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF22 board. In a system where a plurality of YSF22 boards are connected, replace the YSF22 board which is connected to the first EAXA21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4758	M-SAF OVERRUN DIAG. ERROR		An error is detected by YSF21 board. The error is occurred in the signal that is inverted representation. CPU1 1:OT1 CPU1 2:OT2 CPU1 3:OT3 CPU1 4:OT4 CPU2 1:OT1 CPU2 2:OT2 CPU2 3:OT3 CPU2 4:OT4	YSF21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF21 board.
				YSF22 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF22 board. In a system where a plurality of YSF22 boards are connected, replace the board, which is connected to the overrun signal on which the alarm occurred.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
4761	M-SAF GENERAL INPUT DIAG. ERROR		The meaning of each sub code is as follows: CPU1 1:GSIN1 CPU1 2:GSIN2 CPU2 1:GSIN1 CPU2 2:GSIN2	Connection failure	 (1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. YFC24 YSF22-YFC24 cable Check connectors of the connected outside devices of GSIN signal line.
				YSF21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF21 board.
				YSF22 board failure	(1)Reset the alarm.(2)If the alarm occurs again, replace the YSF22 board.In a system where a plurality of YSF22 boards are connected, replace the board on which the alarm occurred.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4762	YSF24 GENERAL INPUT DIAG. ERROR		The meaning of each sub code is as follows: CPU1 1:XIN1 CPU1 2:XIN2 CPU1 3:XIN3 CPU1 4:XIN4 CPU1 5:XIN5 CPU1 6:XIN6 CPU1 7:XIN7 CPU1 8:XIN8 CPU2 1:XIN1 CPU2 2:XIN2 CPU2 3:XIN3 CPU2 4:XIN4 CPU2 5:XIN5 CPU2 6:XIN6 CPU2 7:XIN7 CPU2 8:XIN5 CPU2 8:XIN6 CPU2 7:XIN7 CPU2 8:XIN7 CPU2 8:XIN8	Connection failure	 (1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. YFC24 YSF22-YFC24 cable Check connectors of the connected outside devices of XIN signal line.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YSF21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF21 board.
				YSF22 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF22 board. In a system where a plurality of YSF22 boards are connected, replace the board on which the alarm occurred.
				EAXA21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4765	M-SAF BRAKE FB DIAG. ERROR			Connection failure	 (1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. YSF22-CN214 Cable continuity between YSF22 board and YBK21 board.
				YSF21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF21 board.
				YSF22 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF22 board. In a system where a plurality of YSF22 boards are connected, replace the board on which the alarm occurred.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YBK21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YBK21 board. In a system where a plurality of YBK21 boards are connected, replace the board, which is connected to the board on which the alarm occurred.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4766	M-SAF CONTACT OFF FB DIAG. ERROR			Connection failure	 (1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. YSF22-CN217 YPU52-CN607 Cable continuity between YSF22 board and YPU52 board.
				YSF21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF21 board.
				YSF22 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF22 board. In a system where a plurality of YSF22 boards are connected, replace the board on which the alarm occurred.
				YPU51 unit failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YPU51 unit. In a system where a plurality of YPU51 units are connected, replace the board, which is connected to the unit on which the alarm occurred.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4767	M-SAF GENERAL OUT FB DIAG. ERROR		The meaning of each sub code is as follows: CPU1 1:GSEDM1 CPU1 2:GSEDM2 CPU2 1:GSEDM1 CPU2 2:GSEDM2	Connection failure	 (1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. YSF22 CN219 YSF22-YFC22 Check connectors of the connected outside devices of GSEDM signal line.

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				YSF21 board failure	(1)Reset the alarm.(2)If the alarm occurs again, replace the YSF21 board.
				YFC22 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YFC22 board. In a system where a plurality of YFC22 boards are connected, replace the board, which is connected to the GSIN signal on which the alarm occurred.
				YSF22 board failure	(1)Reset the alarm.(2)If the alarm occurs again, replace the YSF22 board.In a system where a plurality of YSF22 boards are connected, replace the board on which the alarm occurred.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4768	YSF24 GENERAL OUT FB DIAG. ERROR		The meaning of each sub code is as follows: CPU1 1:XEDM1 CPU1 2:XEDM2 CPU1 3:XEDM3 CPU1 4:XEDM4 CPU1 5:XEDM5 CPU1 6:XEDM6 CPU1 7:XEDM7 CPU1 8:XEDM8 CPU2 1:XEDM1 CPU2 2:XEDM2 CPU2 3:XEDM3 CPU2 4:XEDM4 CPU2 5:XEDM5 CPU2 6:XEDM6 CPU2 7:XEDM7 CPU2 8:XEDM6 CPU2 7:XEDM7 CPU2 8:XEDM8	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. • YFC24 • YSF22-YFC24 cable • Check connectors of the connected outside devices of XEDM signal line.
				YSF21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF21 board.

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
		Code			
				YFC22 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YFC22 board. In a system where a plurality of YFC22 boards are connected, replace the board, which is connected to the GSIN signal on which the alarm occurred.
				YSF22 board failure	(1)Reset the alarm.(2)If the alarm occurs again, replace the YSF22 board.In a system where a plurality of YSF22 boards are connected, replace the board on which the alarm occurred.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4772	YSF24 GENERAL OUTPUT DIAG. ERROR		The meaning of each sub code is as follows: CPU1 1:XOUT1 CPU1 2:XOUT2 CPU1 3:XOUT3 CPU1 4:XOUT4 CPU1 5:XOUT5 CPU1 6:XOUT6 CPU1 7:XOUT7 CPU1 8:XOUT8 CPU2 1:XOUT1 CPU2 2:XOUT2 CPU2 3:XOUT3 CPU2 4:XOUT4 CPU2 5:XOUT5 CPU2 6:XOUT6 CPU2 7:XOUT7 CPU2 8:XOUT7	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. • YFC24 • Cable continuity between YSF22 board and YFC24 board.
				YSF21 board failure	(1)Reset the alarm.(2)If the alarm occurs again, replace the YSF21 board.

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code		Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		4	Safety signal board alloc information transmission error was detected.	Setting error	(1) Please display the screen of the "safety function" - "safe logic circuit", and check the value of a "signal", "logic", and a "timer." When a value is inaccurate, please set up the right value and perform "writing."
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		253	M-safety command reception time out was detected.	Setting error	(1) Please display the screen of the "safety function" - "safe logic circuit", and check the value of a "signal", "logic", and a "timer." When a value is inaccurate, please set up the right value and perform "writing."
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		254	Safe logic circuit information write error was detected.	Setting error	(1) Please display the screen of the "safety function" - "safe logic circuit", and check the value of a "signal", "logic", and a "timer." When a value is inaccurate, please set up the right value and perform "writing."
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		255	Safe logic circuit information cancel error was detected.	Setting error	(1) Please display the screen of the "safety function" - "safe logic circuit", and check the value of a "signal", "logic", and a "timer." When a value is inaccurate, please set up the right value and perform "writing."
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
4778	24V VOLTAGE ERROR(SERVO I/O)		YSF21 board detected the error of an 24V power supply for SERVO I/O signals.	Connection failure	(1) Reset the alarm. (2) If the alarm occurs again, check the connection and inserting state of the following cables and connectors. Check the insertion, connection, Short circuit, ground or 24V power line (DIRECTIN singnals) fault of the followings. • YFC22-81,82,92,93: +24V2U3 • YSF22-CN219 • Cable between YSF22 board and the YFC22 board
				YSF22 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF22 board.
				YFC22 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YFC22 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4780	F-SAFE AXIS RANGE LIMIT INTF		Sub Code: Signifies the file number, control groupe and axis in which the alarm occurred.	Setting error	 (1)Check the following settings. Check the axis range limit condition file that is indicated in the sub code is set correctly. Modify the teaching so as not to interfere limit range setting.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4781	AXIS RANGE LIMIT INTF		Sub Code: Signifies the file number, control group and axis in which the alarm occurred.	Setting error	 (1)Check the following settings. Check the axis range limit condition file that is indicated in the sub code is set correctly. Modify the teaching so as not to interfere limit range setting.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4782	F-SAFE AXIS SPEED MONITOR ERROR		Sub Code: Signifies the file number, control group, axis and error type in which the alarm occurred.	Setting error	 (1)Check the following settings. Check the axis speed monitor condition file that is indicated in the sub code is set correctly. Modify the teaching so as not to over with limit speed setting.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4783	F-SAFE ROBOT RANGE LIMIT INTF		Sub Code: Signifies the file number, control group and axis in which the alarm occurred.	Setting error	 (1)Check the following settings. Check robot range limit condition file that is indicated in the sub code is set correctly. Modify the teaching so as not to interfere limit area setting.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4784	ROBOT RANGE LIMIT INTF		Sub Code: Signifies the file number, control group and axis in which the alarm occurred.	Setting error	 (1)Check the following settings. Check the robot range limit condition file that is indicated in the sub code is set correctly. Modify the teaching so as not to interfere limit area setting.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4785	F-SAFE SPEED LIMIT ERROR		Sub Code: Signifies the file number, control group and error type in which the alarm occurred.	Setting error	(1)Check the following settings.Check the speed limit condition file that is indicated in the sub code is set correctly.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4786	F-SAFE TEACH SAFETY SPEED ERROR		Sub Code: Signifies the control group and error type in which the alarm occurred.	Setting error	(1)Check the following settings.Check the speed limit condition file that is indicated in the sub code is set correctly.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4787	F-SAFE ROBOT STOP MONITOR ERROR		Sub Code: Signifies the file number and control group in which the alarm occurred.	Setting error	(1)Check the following settings.Check the speed limit condition file that is indicated in the sub code is set correctly.

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
- Trainisci		Code		other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4788	F-SAFE STATION STOP MONITOR ERR		Sub Code: Signifies the file number, control group and axis in which the alarm occurred.	Setting error	(1)Check the following settings.Check the speed limit condition file that is indicated in the sub code is set correctly.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4789	F-SAFE TOOL CHANGE MONITOR ERR		Sub Code: Signifies the file number, control group and error type in which the alarm occurred. Error type means: 1:All tool change monitoring condition files is invalid. 2:It detects a mismatch of monitoring tool number and the selection tool file number. 3:Multiple tool change monitoring condition files is enabled.	Setting error	 (1)Check the following settings. Check the tool change monitor condition file that is indicated in the sub code is set correctly. Check whether only one tool change monitor condition file enable. Please coincide the tool file number chosen as the robot of the control group displayed in subcode, and a tool change monitor condition file.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4790	F-SAFE TOOL ANGL MONITOR ERR		Sub Code: Signifies the file number and control group in which the alarm occurred.	Setting error	 (1)Check the following settings. Check the tool angle monitor condition file that is indicated in the sub code is set correctly. Modify the teaching so as not to over limit angle setting.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
4796	F-SAFE DATA CRC UNMATCH		Sub Code: Signifies the file kind in which the alarm occurred.	Data error	(1)Reset the alarm, and then try again.(2)Check whether the data which it is going to load is surely saved as data of functional safety.
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				YIF01 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YIF01 board. Save the CMOS.BIN before replace the board to be safe. Replace the YIF01 board, and then load the CMOS.BIN.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4797	F-SAFE RANGE CONBINATION ERR			Software operation error occurred	Reset the alarm, and then try again.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
4798	F-SAFE SAFETY FIELDBUS SET ERR		Sub Code: Code [X] indicates the abnormal content. 1000: Input/output signal number in conditionfile is abnormal. 4000: Safety fieldbus input signal that is not available is set in condition file. 5000: Safety fieldbus output signal that is not available is set in condition file. 6000: File valid condition data is abnormal. Code [_ Y] indicates the type of condition file abnormality occurs. 100: Axis range limit function 200: Axis speed monitor function 300: Speed limit function 400: Robot range limit function 500: Tool angle monitor function 600: Tool change monitor function Code [Z Z] indicates the number of condition file abnormality occurs.	Data error	(1)Check the configuration of condition file abnormality occurs. (2)Reset the alarm, and then try again.
				YSF25 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF25 board. Save the CMOS.BIN before replace the board to be safe.
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board. Save the CMOS.BIN before replace the board to be safe.

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
		Code		Fuse failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection of the fuse of YSF22 board and then turn the power ON again.
				Connection failure	 (1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. YSF22 board CN216 YPU unit CN607
				YSF22 board failure	(1)Reset the alarm.(2)If the alarm occurs again, replace the YSF22 board. Save the CMOS.BIN before replacing the board to be safe.
				EAXA21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replacing the board to be safe.
				EAXB21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXB21 board. Save the CMOS.BIN before replacing the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4827	DRESSER SERVO POWER OFF		Sub Code: Signifies the control axis number which detected an error	The servo power is not supplied.	Turn ON the servo power for the servo dresser axis to be operated.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4883	SENSOR OVER RANGE		Sub Code; channel	Setting error	(1)Reset the alarm and decrease the motion speed in JOB.(2)If the alarm occurs again, save the CMOS.BIN in the maintenance mode and contact your Yaskawa representative about occurrence status (operating procedure).
4885	SENSOR OUTPUT ERROR		Sub Code; channel	Sensor error	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in the maintenance mode and contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
		Code			
4901	CUBE/AXIS INTERFERENCE		Sub Code; Group, axis, and interference area number	Setting error	 (1)Check the following settings. Perform the teaching again to correct positions for manipulators so that the step where the alarm occurred is out of interference area. Change the settings for interference area.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4902	CUBE INTERFERENCE (TCP)		Sub Code; Group and interference area number	Setting error	 (1)Check the following settings. Change the step position where the alarm occurred to the area outside the interference area. Modify the interference area setting.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4903	CUBE INTERFERENCE (ENTIRE)		Sub Code; Group, axis, and interference area number	Setting error	 (1)Check the following settings. Perform the teaching again to correct positions for manipulators so that the step where the alarm occurred is out of interference area. Change the settings for interference area.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4904	CUBE INTERFERENCE AREA SET ERR	0	Maximum number of the cube interference area exceeds the allowable range.	Setting error	(1)Reset the alarm.(2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		1	The number of cube interference area whose monitoring part is "whole" exceeds the limit.	Setting error	Reduce the number of cube interference area whose monitoring part is "whole".
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4911	SAFETY FIELDBUS NOT ESTABLISHED	1	PROFIsafe communication was not established to the default time.	Setting error	(1)Reset the alarm. (2)If the alarm occurs again, please check the following. • SF(Group Fault) LED, BF(Bus Fault) LED of CP1616 board is lit or blinking. • SF(Group Fault) LED, BF(Bus Fault) LED of safety PLC board is lit or blinking. (3)If the above problems, there is a possibility that the connection settings of the safety PLC or CP1616 is not successful. Please set again according to the manual.
				Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, please re-power on the safety PLC and the robot controller.
				Connection failure	(1)Reset the alarm.(2)If the alarm occurs again, please check the connection or insertion state of cables connected to the CP1616 board and safety PLC.
				CP1616 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the CP1616 board.
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		10	CIP Safety communication was not established to the default time.(sub code is not defined)	Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, please re-power on the safety PLC and the robot controller.
				Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, please check the connection or insertion state of cables connected to the "CN104 connector of YCP21 board" and safety PLC.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
		10	Size of F_CRC is invalid.	Setting error	 (1)Reset the alarm. (2)If the alarm occurs again, please check the following. When setting up the safety the PLC, whether imported into SIEMENS manufactured configuration tool(STEP 7) GSD file of CP1616 board we offer.
				YSF21 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the YSF21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		20	Processing of safety field bus does not start.	Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, please turn the power OFF then back ON.
				YSF21 board failure	(1)Turn the power OFF then back ON.(2)If the alarm occurs again, replace the YSF21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		30	Communication error of safety field bus occurred.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, please check the connection or insertion state of cables connected to the CP1616 board and safety PLC.
				Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, please re-power on the safety PLC and the robot controller.
				YSF21 board failure	(1)Turn the power OFF then back ON. (2)If the alarm occurs again, replace the YSF21 board.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
		31	Watchdog time error of safety field bus occurred.	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, please check the connection or insertion state of cables connected to the CP1616 board and safety PLC.

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
4921	M-SAF STO SELF CHECK ERR		The meaning of each sub code is as follows: CPU1 1:STO1 CPU1 2:STO2 CPU1 3:STO3 CPU1 4:STO4 CPU2 1:STO1 CPU2 2:STO2 CPU2 3:STO3 CPU2 4:STO4	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. • YSF22-CN217 • Cable continuity between YSF22 board and EAXA21 board.
				YSF21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF21 board.
				YSF21 board failure	(1)Reset the alarm.(2)If the alarm occurs again, replace the YSF22 board.In a system where a plurality of YSF22 boards are connected, replace the board on which the alarm occurred.
				EAXA21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA21 board.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4922	M-SAF GENERAL OUT SELF CHECK ERR		The meaning of each sub code is as follows: CPU1 1:GSOUT1 CPU1 2:GSOUT2 CPU2 1:GSOUT1 CPU2 2:GSOUT2	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. • YFC22 • Cable continuity between YSF22 board and YFC22 board.
				YSF21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF21 board.
				YSF22 board failure	(1)Reset the alarm.(2)If the alarm occurs again, replace the YSF22 board.In a system where a plurality of YSF22 boards are connected, replace the board on which the alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YFC22 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YFC22 board. In a system where a plurality of YFC22 boards are connected, replace the board on which the alarm occurred.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4923	YSF24 GENERAL OUT SELF CHECK ERR		The meaning of each sub code is as follows: CPU1 1:XOUT1 CPU1 2:XOUT2 CPU1 3:XOUT3 CPU1 4:XOUT4 CPU1 5:XOUT5 CPU1 6:XOUT6 CPU1 7:XOUT7 CPU1 8:XOUT8 CPU2 1:XOUT1 CPU2 2:XOUT2 CPU2 3:XOUT3 CPU2 4:XOUT4 CPU2 5:XOUT5 CPU2 6:XOUT6 CPU2 7:XOUT7 CPU2 8:XOUT7	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. • YSF24 • Cable continuity between YSF22 board and YSF24 board.
				YSF21 board failure	(1)Reset the alarm.(2)If the alarm occurs again, replace the YSF21 board.
				YSF22 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF22 board. In a system where a plurality of YSF22 boards are connected, replace the board on which the alarm occurred.
				YSF24 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF24 board. In a system where a plurality of YSF24 boards are connected, replace the board on which the alarm occurred.

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4924	M-SAF CONTACTOR UNMATCH		The meaning of each sub code is as follows: CPU1 1:SFRON1 CPU1 2:SFRON2 CPU1 3:SFRON3 CPU1 4:SFRON4 CPU2 1:SFRON1 CPU2 2:SFRON2 CPU2 3:SFRON3 CPU2 4:SFRON4	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. • YSF22-CN217 • YPU-CN607 • Cable continuity between YSF22 board and YPU unit.
				YSF21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF21 board.
				YSF22 board failure	(1)Reset the alarm.(2)If the alarm occurs again, replace the YSF22 board.In a system where a plurality of YSF22 boards are connected, replace the board on which the alarm occurred.
				YPU unit failure	(1)Reset the alarm.(2)If the alarm occurs again, replace the YPU unit.In a system where a plurality of YPU units are connected, replace the unit, which is connected to the unit on which the alarm occurred.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				YFC22 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YFC22 board. In a system where a plurality of YFC22 boards are connected, replace the board on which the alarm occurred.
				Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4927	YSF24 GENERAL OUTPUT UNMATCH		The meaning of each sub code is as follows: CPU1 1:XOUT1 CPU1 2:XOUT2 CPU1 3:XOUT3 CPU1 4:XOUT4 CPU1 5:XOUT5 CPU1 6:XOUT6 CPU1 7:XOUT7 CPU1 8:XOUT8 CPU2 1:XOUT1 CPU2 2:XOUT2 CPU2 3:XOUT3 CPU2 4:XOUT4 CPU2 5:XOUT5 CPU2 6:XOUT6 CPU2 7:XOUT7 CPU2 8:XOUT7	Connection failure	(1)Reset the alarm. (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. • YSF24 • Cable continuity between YSF22 board and YSF24 board.
				YSF21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF21 board.
				YSF22 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF22 board. In a system where a plurality of YSF22 boards are connected, replace the board on which the alarm occurred.
				YSF24 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the YSF24 board. In a system where a plurality of YSF24 boards are connected, replace the board on which the alarm occurred.

Alarm Number	Alarm Name	Sub	Meaning	Cause	Remedy
- Trainisci		Code		Other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4940	MOTION COMMAND CODE ERROR (SV)			Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4941	CANNOT EXECUTE MOTION CMD (SV)			Software operation error occurred	(1)Reset the alarm.(2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4942	AVERAGING TIME CHANGE ERR (SV)			Software operation error occurred	(1)Reset the alarm.(2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4943	AVERAGING TIME ERROR (SERVO)			Software operation error occurred	(1)Reset the alarm.(2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4944	POSITION LOOP GAIN ERROR (SV)			Software operation error occurred	(1)Reset the alarm.(2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4945	MOTION COMMAND DATA ERROR (SV)			Software operation error occurred	(1)Reset the alarm.(2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4946	PG POWER ON INCOMPLETE (SV)			Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm Number	Alarm Name	Sub Code	Meaning	Cause	Remedy
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4953	ENCODER COUNTER DIFF. ERR (SV)			Connection failure	(1)Reset the alarm (2)If the alarm occurs again, check the connection and inserting state of the following cables and connectors. {Robot axis} • Cables between encoders • EAXA21-CN508 {External axis} • Cables between encoders • EAXB21-CN534,535,536
				EAXA21 board failure	(1)Reset the alarm. (2)If the alarm occurs again, replace the EAXA21 board. Save the CMOS.BIN before replacing the board to be safe.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4954	REALTIME STATUS S/ R ERROR (SV)			Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4955	AVERAGING DATA ERROR (SERVO)			Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4956	AVERAGING SUM ERROR (SERVO)			Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4957	AVERAGING STATUS ERR (SERVO)			Software operation error occurred	(1)Reset the alarm. (2)If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).

Alarm	Alarm Name	Sub	Meaning	Cause	Remedy
Number		Code			
4981	DEST PULSE MECHANICAL LIMIT			Setting error	(1)Check the following settings.Check the position setting for the step (move instruction) where the alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4982	DEST MECHANICAL INTRF			Setting error	(1)Check the following settings.Check the position setting for the step (move instruction) where the alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4983	DEST MECHANICAL INTRF			Setting error	(1)Check the following settings.Check the position setting for the step (move instruction) where the alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4984	DESTINATION SELF- INTERFERENCE			Setting error	(1)Check the following settings.Check the position setting for the step (move instruction) where the alarm occurred.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4985	TEACH LINE CORD JOG MOVE DISABLE			Setting error	Correct the attitude of the tool and the ground are out of vertical, and execute teach line cord jog move.
				other	If the alarm occurs again, save the CMOS.BIN in maintenance mode, and then contact your Yaskawa representative about occurrence status (operating procedure).
4986	TEACH LINE CORD JOG MOVC DISABLE			Setting error	Execute FWD/BWD/TEST RUN operation, and execute teach line cord jog move.

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DX200 MAINTENANCE MANUAL

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